
Platform OEM Barcode Scanner User Manual

Release v1.1.1

2026-09-02

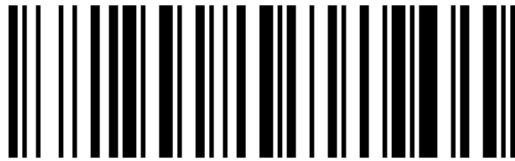
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1 System Settings

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

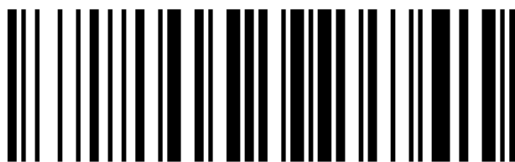
1.3 Work Mode

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” .



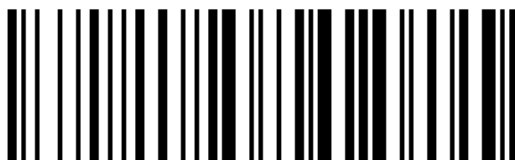
* Normal mode



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

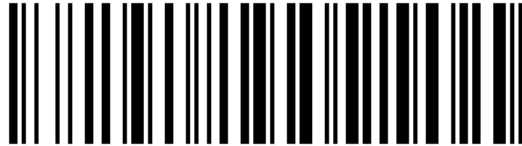
2.2 Set sleep time



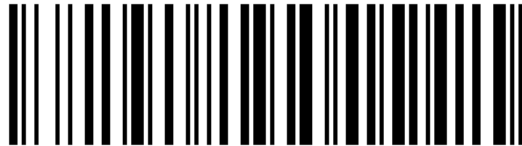
Hibernate now



Sleep after 1 minute



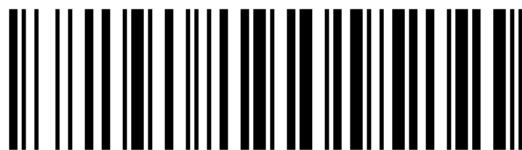
Sleep after 3 minutes (default)



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 Barcode Reader battery level



Get battery level

3 Feedback Indicators

3.1 Buzzer control



Mute



* high volume



medium volume



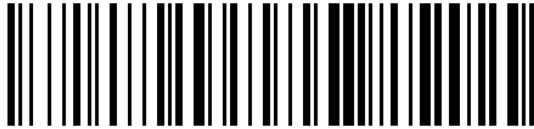
low volume



* high pitch



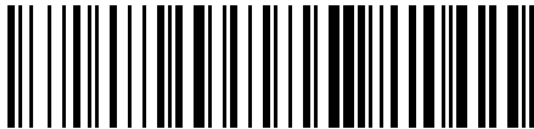
low pitch



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

3.4 Indicator definition

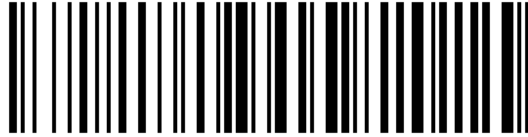
Indicator	Status
red light / green light	When charging, the red light is on and the green light is off; when fully charged, the red light is off and the green light is on.
blue light	Following the buzzer action, the buzzer lights up when it sounds and goes out when it does not sound; models that support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

4 wired mode

Note

Only applicable to Barcode Readers that support wired transmission.

4.1 USB transfer method



* USB keyboard mode



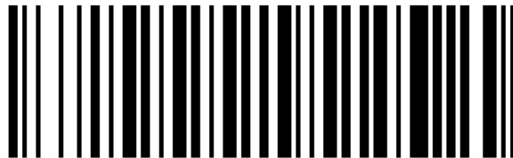
USB Virtual COM Port mode

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 Barcode Reader 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



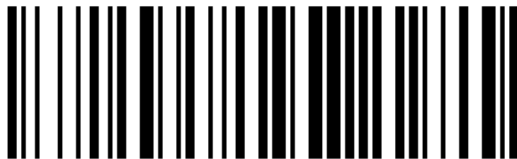
top speed



Medium speed



Medium speed



Read keyboard speed



Read keyboard speed

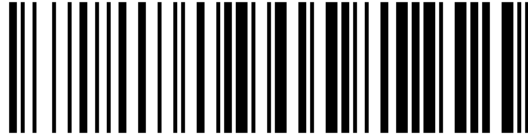
4.3 USB HID multi-key send settings

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 Barcode Readers 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.



one-to-one pairing



One-to-many pairing

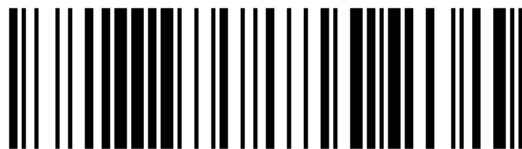
5.4 Receiver working mode

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

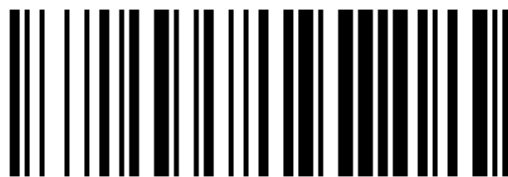
Receiver keyboard transmission speed

Note

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

Important

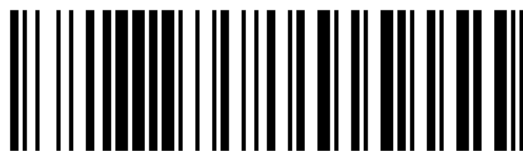
This command is only valid in wireless 2.4G mode and the receiver is connected normally.



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 Barcode Readers that support this feature. After scanning the Parameter Barcode, 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 Parameter 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 Barcode Readers 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 Barcode Reader.



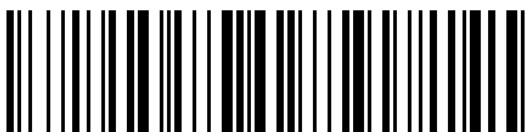
Bluetooth HID Keyboard (Default)



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.

If the interactive HTML tool is unavailable, replace the placeholders as described in this section and verify the command.

```
AT+NAME=<bluetooth-name>
```

6.5 Clear Bluetooth HID Pairing

After scanning “Clear Pairing” in Bluetooth transmission mode, the Barcode Reader 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

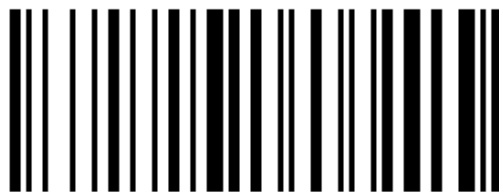
iOS system pop-up keyboard function



iOS pop up/hide keyboard



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



Double-press the Trigger Button 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 Barcode Readers. After scanning the Parameter Barcode, two short beeps indicate disabled, and one three-tone beep indicates enabled.

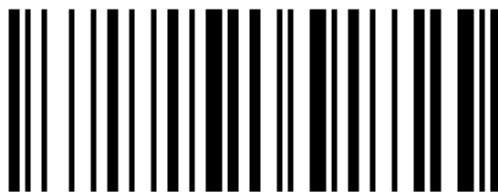


Windows Caps Lock detection switch

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 Barcode Readers (DS, C, RT). When enabled, press and hold the Trigger Button for more than 8 seconds and release it to switch between RF and BT. If you hold it for more than 16 seconds, the Barcode Reader powers off and the mode does not switch. After scanning the Parameter Barcode, two short beeps indicate disabled, and one three-tone beep indicates enabled.

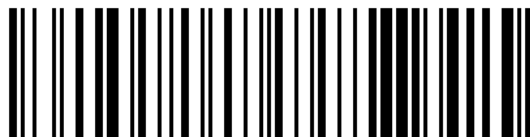


Press and hold the Trigger Button for 8 seconds to toggle RF/BT switching

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)

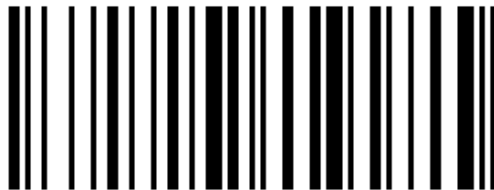


Low speed (30 ms)

6.9 Bluetooth connection status non-sleep setting

Note

After scanning the Parameter Barcode, 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

General HID Settings

Note

The general HID settings in this section apply to USB Keyboard, RF 2.4G Keyboard, and Bluetooth HID Keyboard modes.

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.

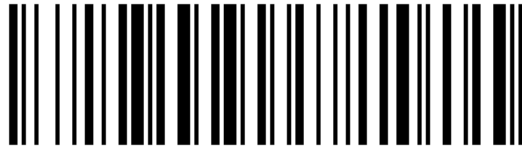
Case settings



normal



Swap case



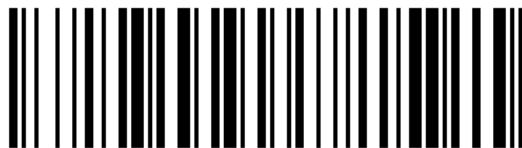
all caps



all lowercase

Case conversion does not apply when the keyboard layout is set to ALT or TH.

Num Lock Settings



Disable Num Lock



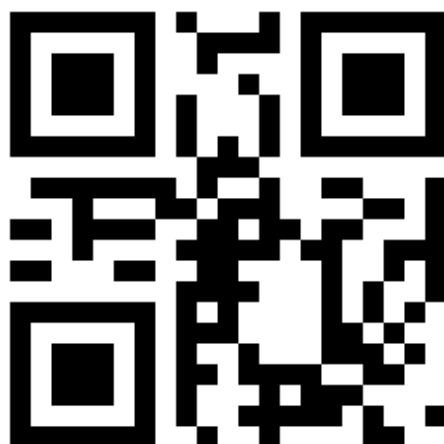
Num Lock on

*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 Barcode Readers, this setting matches the 2D module' s output character set.



Read the current character set settings



Auto



GBK / BIG5 / HANGUL / SJIS



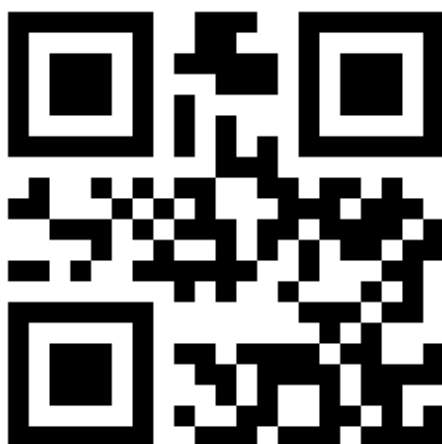
ISO/IEC 8859



UTF8 (Word)



UTF8 (Txt)



Normal mode

Note:

model	Applicable scenarios	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 configures how different host devices enter ASCII characters (0x20 to 0x7F). Use it together with [Keyboard Layout 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”

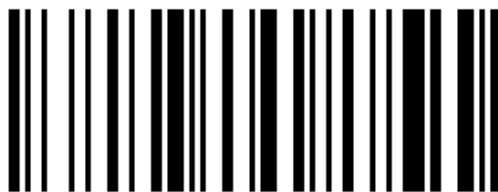
7.2 Keyboard language settings

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



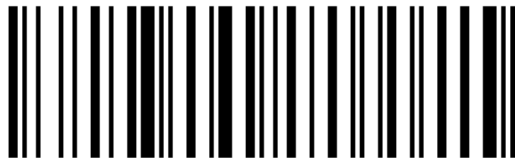
Czech standard keyboard

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



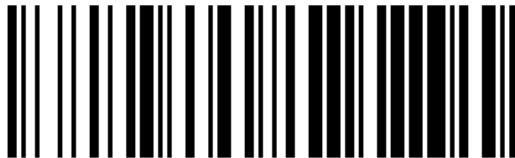
Dutch keyboard

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



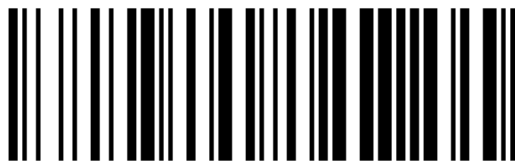
Swedish keyboard

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, set the Scan Engine output to TH as well.



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 Parameter Barcodes.

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 Barcodes that correspond to the required ASCII value (that is, two barcodes per character).

See also

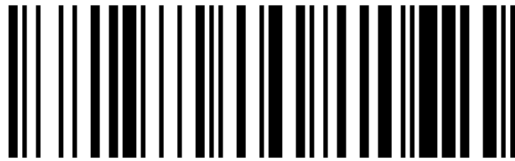
For character values, please refer to *ASCII Function Key Character Reference Table* and *ASCII Character Reference Table*; for parameters that require input of numerical values, please scan *Numeric Barcode*; for specific procedures, see *Add a Prefix or Suffix*.

Can be set to hide the first, middle or last characters of the barcode. After scanning the corresponding hidden Parameter Barcode, scan the two-digit hexadecimal Numeric 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).

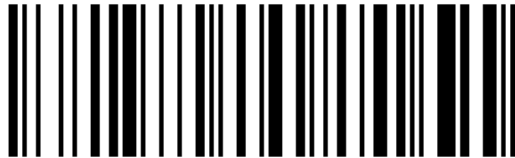
See also

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

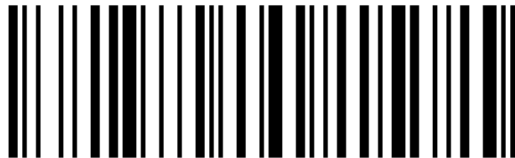
Operation Code



Add Prefix



Add Suffix



Clear all prefixes



Clear all suffixes



Hide Leading Characters



Hide Barcode Middle Start Position



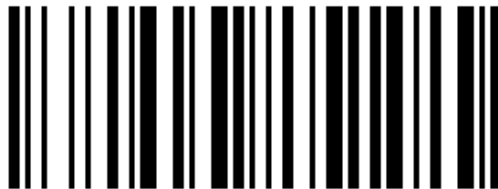
Hide Middle Section Length



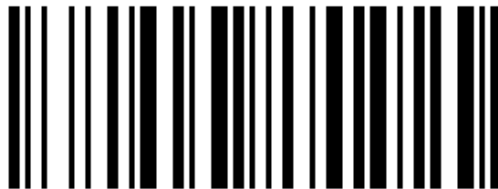
Hide Trailing Characters

Numeric Barcode

For parameters that require a numeric value, scan the corresponding Numeric Barcodes.



Numeric Barcode 0



Numeric Barcode 1



Numeric Barcode 2



Numeric Barcode 3



Numeric Barcode 4



Numeric Barcode 5



Numeric Barcode 6



Numeric Barcode 7



Numeric Barcode 8



Numeric Barcode 9



Numeric Barcode A



Numeric Barcode B



Numeric Barcode C



Numeric Barcode D



Numeric Barcode E



Numeric Barcode F

Output Format Settings

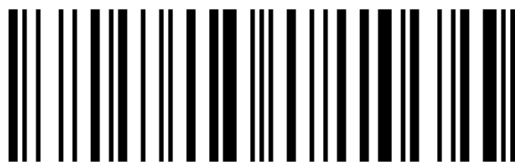
To change the output data format, scan the corresponding Parameter Barcode below.



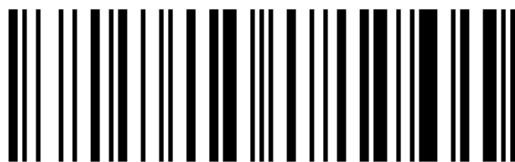
Default Output Format



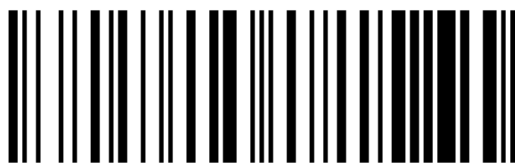
Allow Suffix Output



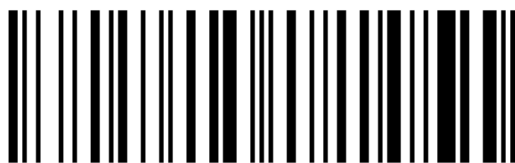
Allow Prefix Output



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 Format Parameter Barcode first.
2. New characters are appended to the existing Prefix/Suffix. To replace the current Prefix/Suffix, first scan “Clear All Prefixes/Suffixes” , then configure the new values.
3. Scan the “Add Prefix” or “Add Suffix” Parameter 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 Numeric 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 Parameter Barcode for the barcode header, middle start position, middle length, or trailing characters.
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 Numeric Barcode.
4. Enable or disable the hidden character function through the Output Format Parameter Barcode.

9.2 Extended Data Editing Settings

This section lets you generate data editing Parameter Barcodes 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 Parameter Barcode, scan the generated barcode to complete the setting, or send the command by serial command using the format below.

Add Prefix

If the interactive HTML tool is unavailable, replace the placeholders as described in this section and verify the command.

```
$DATA#20<length-hex><content>#
```

Add Suffix

If the interactive HTML tool is unavailable, replace the placeholders as described in this section and verify the command.

```
$DATA#10<length-hex><content>#
```

Hide Leading Barcode Characters

If the interactive HTML tool is unavailable, replace the placeholders as described in this section and verify the command.

```
$DATA#50<length-hex>#
```

Hide Middle Barcode Characters

If the interactive HTML tool is unavailable, replace the placeholders as described in this section and verify the command.

```
$DATA#40<position-hex><length-hex>#
```

Hide Trailing Barcode Characters

If the interactive HTML tool is unavailable, replace the placeholders as described in this section and verify the command.

```
$DATA#30<length-hex>#
```

Character Replacement

If the interactive HTML tool is unavailable, replace the placeholders as described in this section and verify the command.

```
$DATA#70<source-length-hex><source><target-length-hex><target>#
```

One-Code Setup Command Format

Edit format:

```
$DATA#nc11xx#
```

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 as a hexadecimal value: Prefix/Suffix 01~0A, hidden characters 01~FF, replacement data 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

i Example

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



Character replacement operation: LF to CR

i Example

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

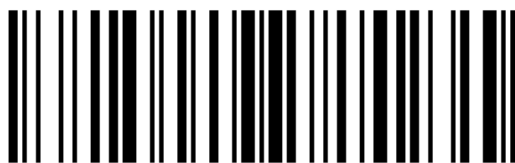
9.3 Terminator Settings

i Note

This terminator is independent of the scan engine suffix and wireless Prefix/Suffix, which facilitates quick setting when the scan engine has no suffix.



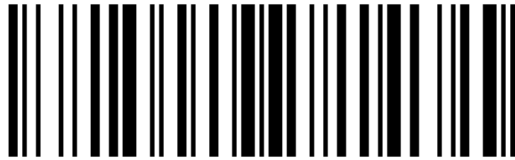
None (Default)



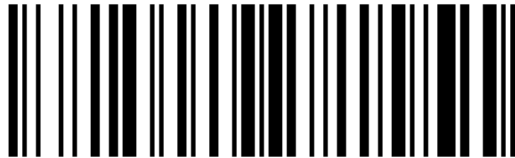
Carriage Return CR



Tab TAB



Carriage Return + Line Feed CRLF

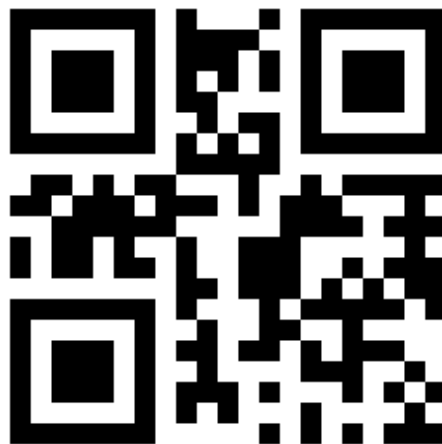


Line Feed LF

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)

Decode Timeout

This parameter sets the maximum time allowed for decoding during a scan attempt. Enter a four-digit value in milliseconds. Default: 3000 ms; range: 0500-9999 ms.



3 seconds (default)



6 seconds

Scan Interval

This parameter sets the interval between reads in Continuous Mode. Enter a four-digit value in milliseconds. Default: 0500 ms; range: 0100-9999 ms.



0.5 seconds (default)



1 second

11 Module Settings

11.1 Device Feature 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:

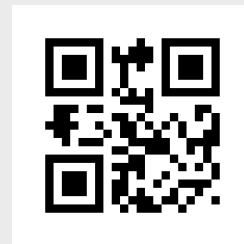
Normal lighting (default setting): The lighting lights up when shooting and reading, and turns off at other times;

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.



*Normal Lighting



No Lighting



Lighting Always On

AIM

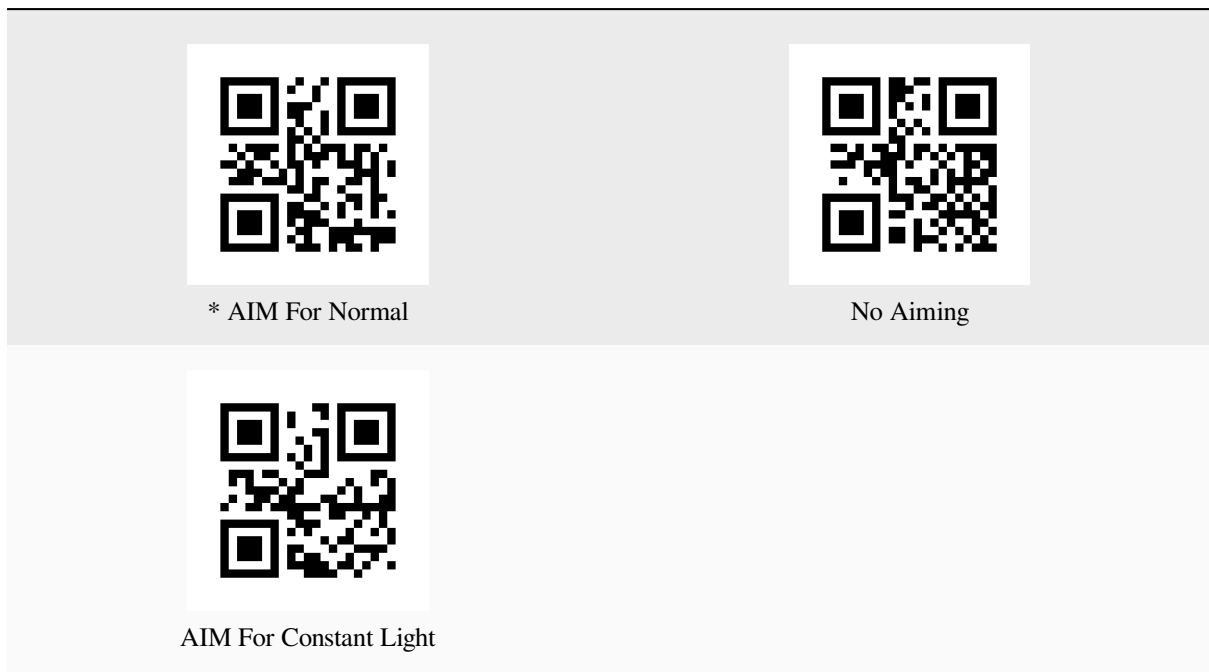
The projected aiming beam helps users find the optimal reading distance when shooting for reading. According to the application environment, users can

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

Scan Mode

Key Hold

In Button Hold Mode, press and hold the button to scan. Releasing the button, a successful decode, or expiration of the Decode Timeout ends the scan session.



Key Hold

Single Button Trigger

In Single Button Trigger Mode, press the button to start scanning. Releasing the button does not stop scanning; the scan session ends after a successful decode or when the Decode Timeout expires.



Single Button Trigger

Continuous Mode

Once configured, the Scan Engine starts scanning immediately without a trigger. After a successful decode or when the Decode Timeout expires, it waits for the Scan Interval and then automatically starts the next scan session.



Continuous Mode

Presentation Mode

In Presentation Mode, the Scan Engine monitors ambient brightness and starts scanning when the brightness changes. The scan session ends after a successful decode or when the Decode Timeout expires, after which ambient-brightness monitoring resumes.



Presentation 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” Parameter Barcode



Image Stabilization Time

Scan the “Numeric Barcode” . For example, if the duration is 100ms, scan 1, 0, 0; if the duration is 1005ms, scan 1, 0, 0, 5

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Quick Setting Of Image Stabilization Duration



100ms



200ms



*300ms



400ms



500ms



1000ms

Special Scan Modes

Screen Fast Mode

This special-purpose mode is not available in standard product versions. It is intended for applications that require rapid decoding of barcodes displayed on screens. Contact the supplier if you need this mode.

High-Speed Scan Mode

This special-purpose mode is not available in standard product versions. It is intended for rapid decoding of barcodes on paper by fixed-mount Scan Engines, Presentation Scanners, and similar products. Contact the supplier to enable this mode.

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” Parameter Barcode



Single Reading Time

Scan the “Numeric Barcode” . For example, if the duration is 100ms, scan 1, 0, 0; if the duration is 1005ms, scan 1, 0, 0, 5

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Quick Setting Of Single Reading Time

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

Same Symbol Timeout

To prevent repeated reads in Continuous Mode and Presentation Mode, the Scan Engine rejects the same barcode until the Same Symbol Timeout has elapsed. Range: 0-65535 ms. Default: 0 ms.

Same Symbol Timeout Setting

Scan the “Same Symbol Timeout” Parameter Barcode



Same Symbol Timeout

Scan the “Numeric Barcode” . For example, if the interval is 100ms, scan 1, 0, 0; if the interval is 1005ms, scan 1, 0, 0, 5

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Same Symbol Timeout Quick Settings

 * 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” Parameter Barcode



Reading Interval Time

Scan the “Numeric Barcode” . For example, if the interval is 100ms, scan 1, 0, 0; if the interval is 1005ms, scan 1, 0, 0, 5

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Quickly Set The Reading Interval Time

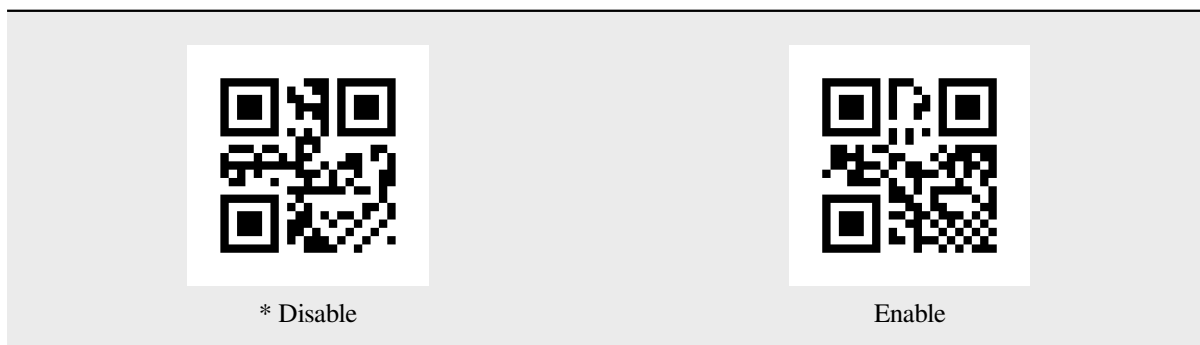


11.3 Engine Code ID

Barcode ID

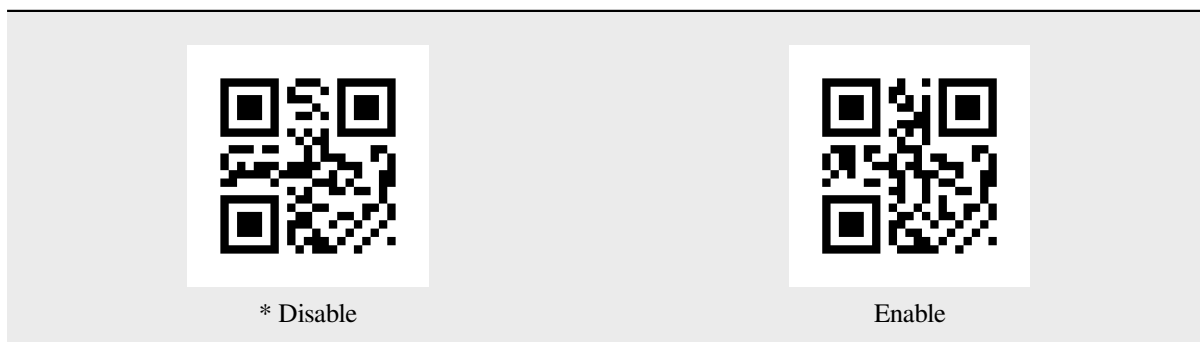
AIM ID

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 Scan Engine can add this identification code in front of the barcode data after decoding. The format is: “]” + letter “C” + number “0” . For example, the AIM ID of Code 128 is “]C0” . 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 Types
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 Types
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 Types	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 Types	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

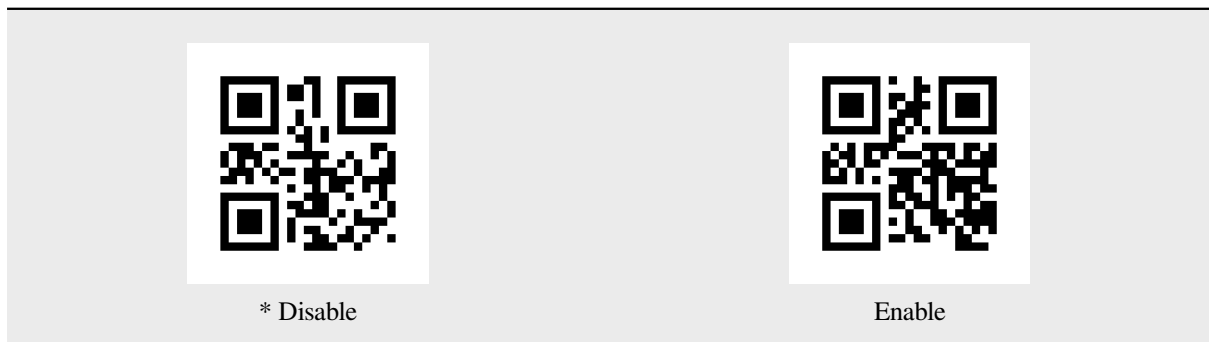
Terminator

To help the host distinguish consecutive scan results, enable the Terminator function. The Scan Engine appends the selected Terminator to the Output Data.

 Disable	 Carriage Return and Line Feed
 * Enter	 TAB
 Enter Enter	

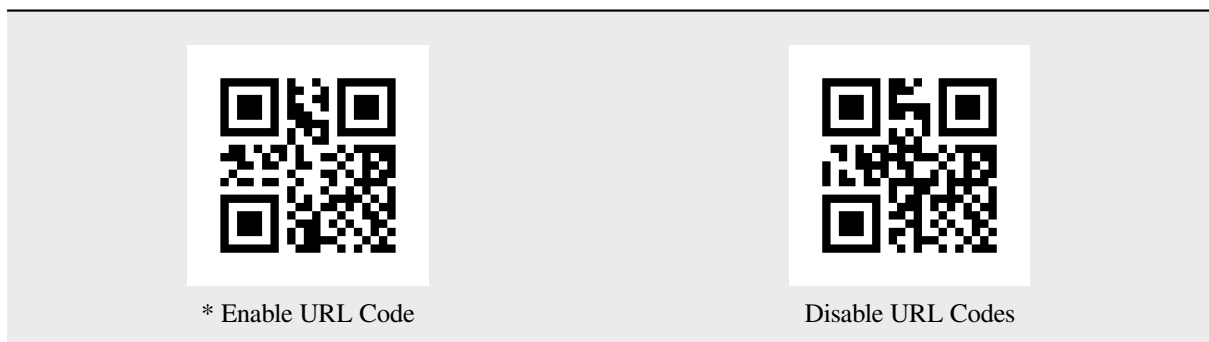
Line Feed And Carriage Return

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



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.



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 Parameter 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

Global 1D Barcode Switch

	
Disable	Enable


* Default

Global 2D Barcode Switch



Barcode Security Level

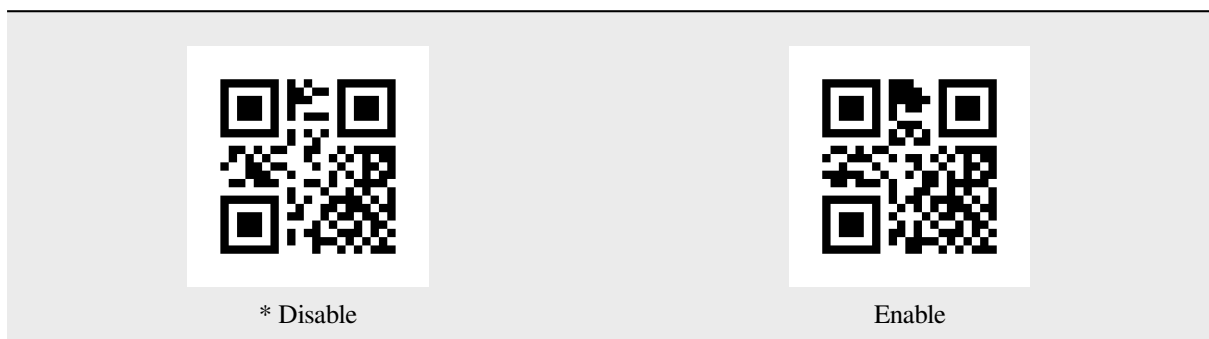
Five security levels are available to reduce decoding errors under difficult conditions. Higher levels improve reliability but may reduce decoding speed.



Multi-code Identification

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

Must Read Multiple Codes



Read Multiple Codes

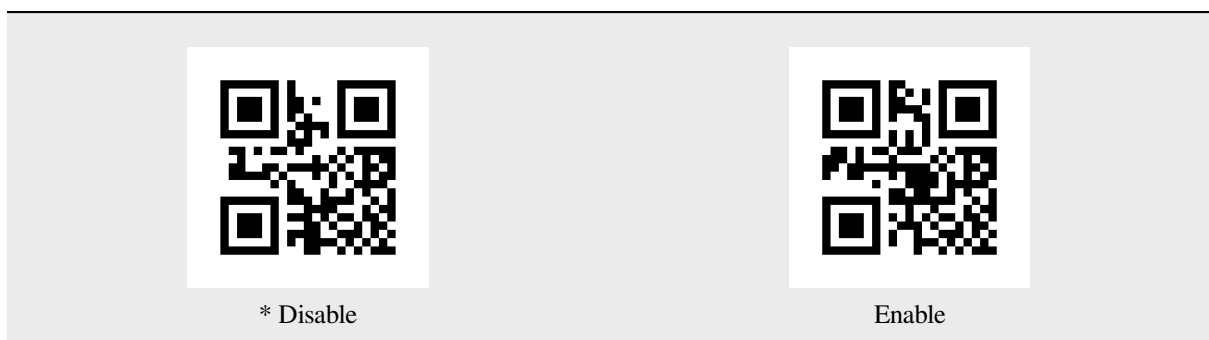


Global Inverse-reading Switch

Scan the following Parameter Barcode to enable/disable inverse reading.

Note

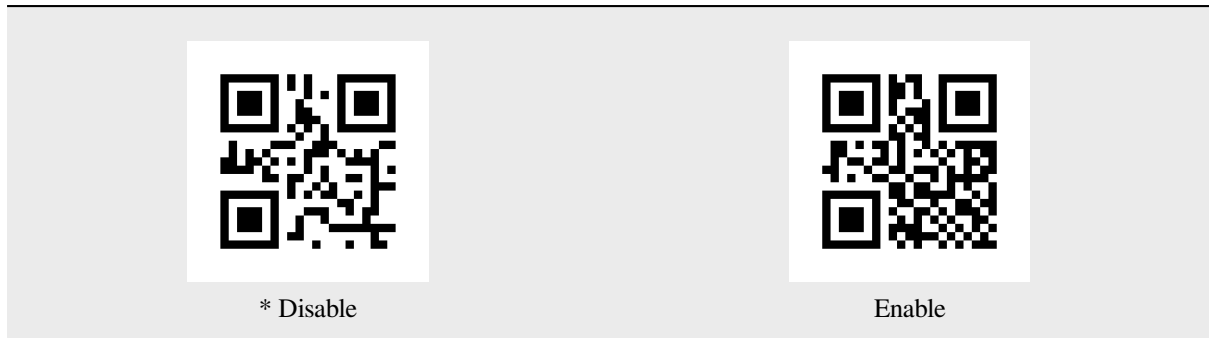
Enabling inverse reading globally may significantly reduce Barcode Reader performance. For commonly used symbologies, enable inverse reading only for the required symbology.



Local Inverse-reading Switch

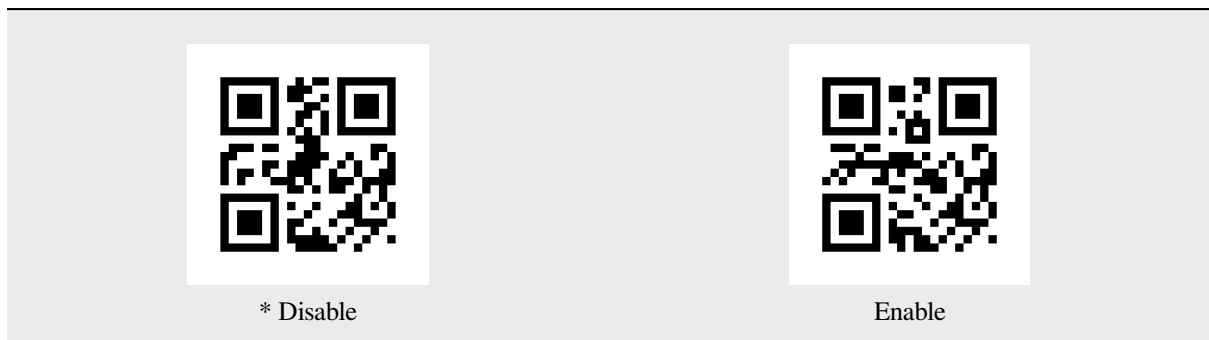
Code 128 inverse-reading switch

Scan the following Parameter Barcode to enable/disable inverse reading of Code 128 barcodes. This setting is also valid for GS1-128



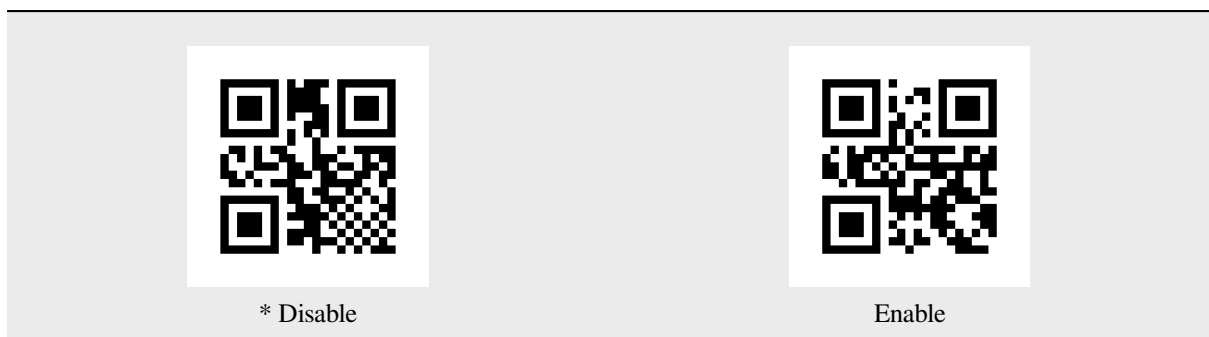
EAN/UPC Inverse-reading Switch

Scan the following Parameter Barcode to enable/disable inverse reading of EAN/UPC barcodes.



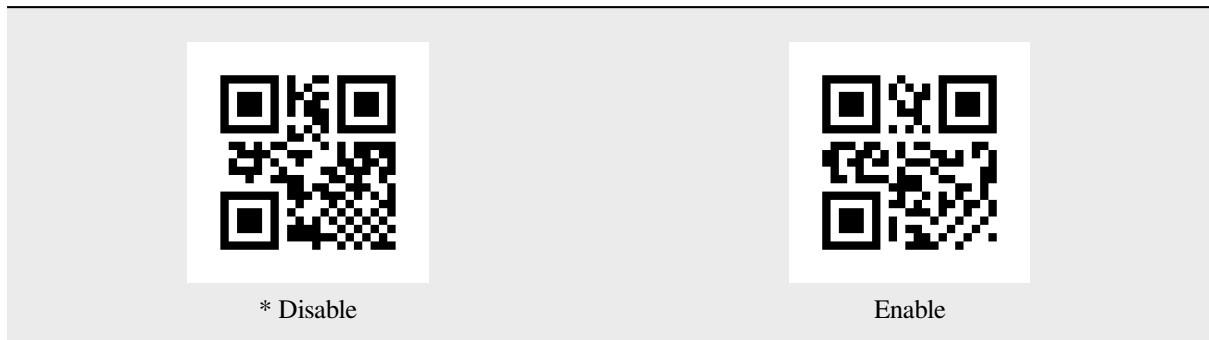
ITF25 inverse-reading switch

Scan the following Parameter Barcode to enable/disable inverse reading of ITF25 barcodes.



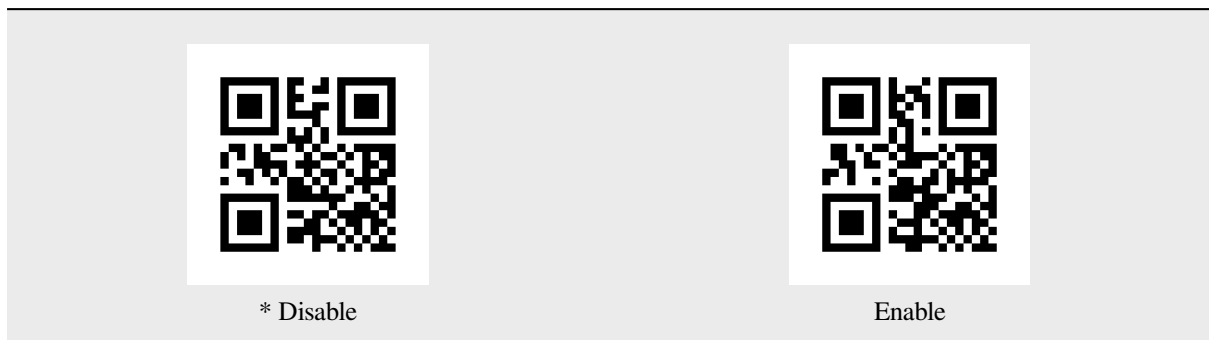
Code 39 inverse-reading switch

Scan the following Parameter Barcode to enable/disable inverse reading of Code 39 barcodes.



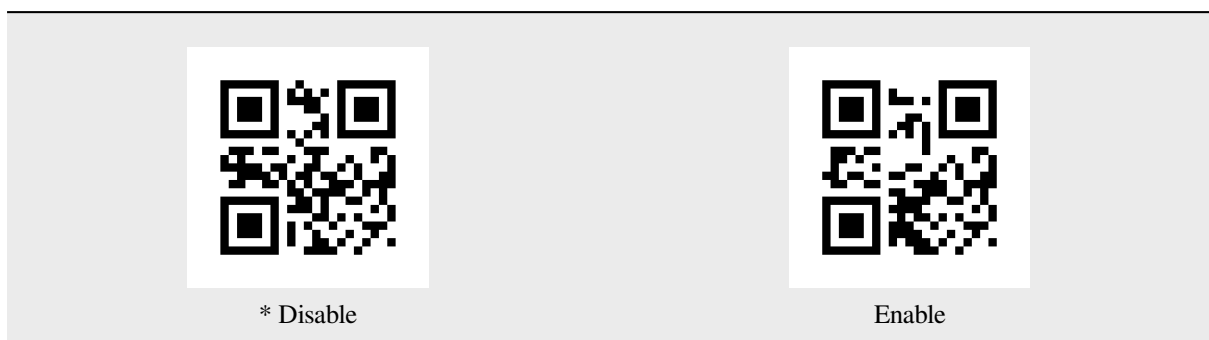
Codabar inverse-reading switch

Scan the following Parameter Barcode to enable/disable inverse reading of Codabar barcodes.



Code 93 inverse-reading switch

Scan the following Parameter Barcode to enable/disable inverse reading of Code 93 barcodes.

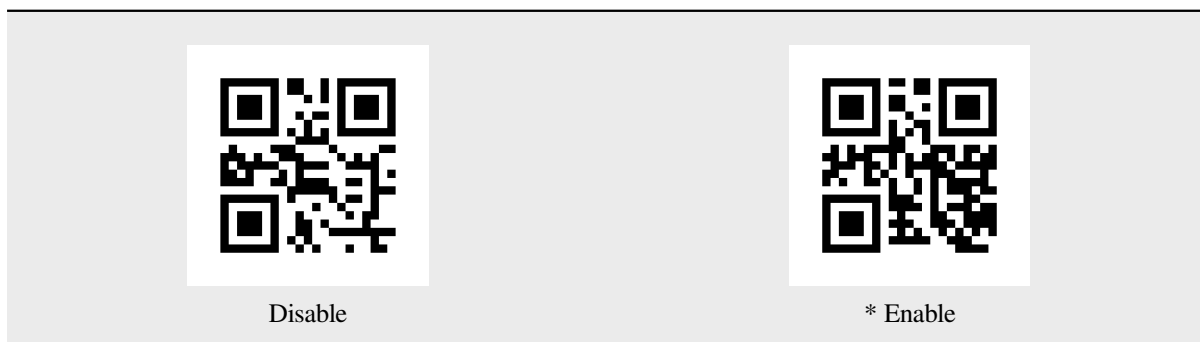


L Series - Symbology Enable/Disable Configuration

Code 128

Code 128 Switch

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 128 minimum length Parameter Barcode content format: `>!000012XX.`

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Code 128 Minimum Length” Parameter Barcode



Code 128 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 128 Maximum Length

There are two methods for setting the maximum length of Code 128. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 128 Maximum length Parameter Barcode content format: >!000013XX.

XX

Set variable, decimal range 0–255.

Example

- The maximum length of Code 128 is set to 9, then the Parameter Barcode content is: >!0000139.
- The maximum length of Code 128 is set to 20, then the Parameter Barcode content is: >!00001320.

Method 2: Scan the manual Parameter Barcode

Scan the “Code 128 Maximum Length” Parameter Barcode



Code 128 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



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

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

GS1 128 minimum length Parameter Barcode content format: >!000022XX.

XX

Set variable, decimal range 0–255.

Example

- The minimum length of GS1 128 is set to 2, then the Parameter Barcode content is: >!0000222.
- The minimum length of GS1 128 is set to 12, then the Parameter Barcode content is: >!00002212.

Method 2: Scan the manual Parameter Barcode

Scan the “GS1 128 minimum length” Parameter Barcode



GS1 128 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

GS1 128 Maximum Length

There are two methods for setting the maximum length of GS1 128. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

GS1 128 maximum length Parameter Barcode content format: >!000023xx.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “GS1 128 maximum length” Parameter Barcode



GS1 128 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

EAN-8

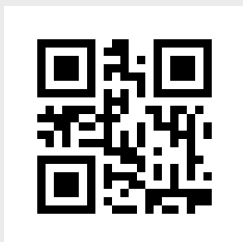
EAN-8 Switch

Scan the following Parameter Barcode to enable/disable EAN-8 barcode reading.

	
Disable	* Enable

EAN-8 Check Digit Transmission

Scan the following Parameter Barcode to set whether EAN-8 transmits the check digit.

	
Disable	* Enable

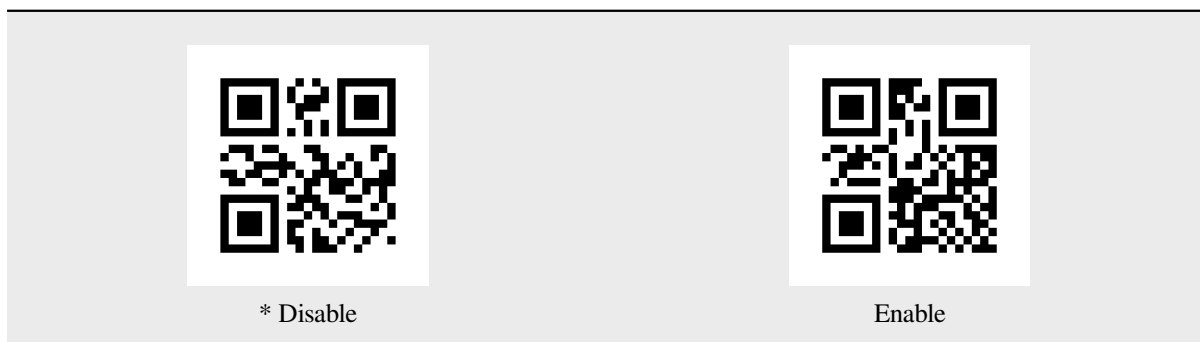
EAN-8 Reads 2-digit Additional Code

Scan the following Parameter Barcode to set whether EAN-8 can read the 2-digit additional code.

	
* Disable	Enable

EAN-8 Reads 5-digit Additional Code

Scan the following Parameter Barcode to set whether EAN-8 can read the 5-digit additional code.



Read Only With Add-on Code EAN-8

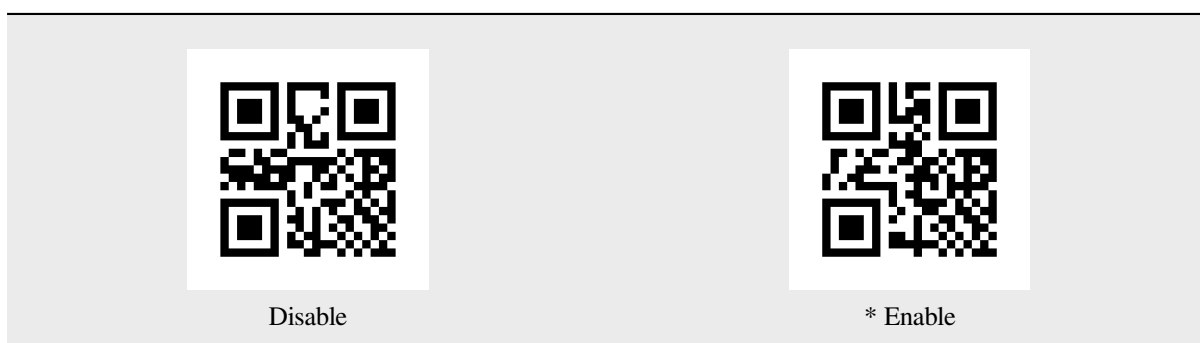
Scan the following Parameter Barcode to set whether to read only EAN-8 with additional code.



EAN-13

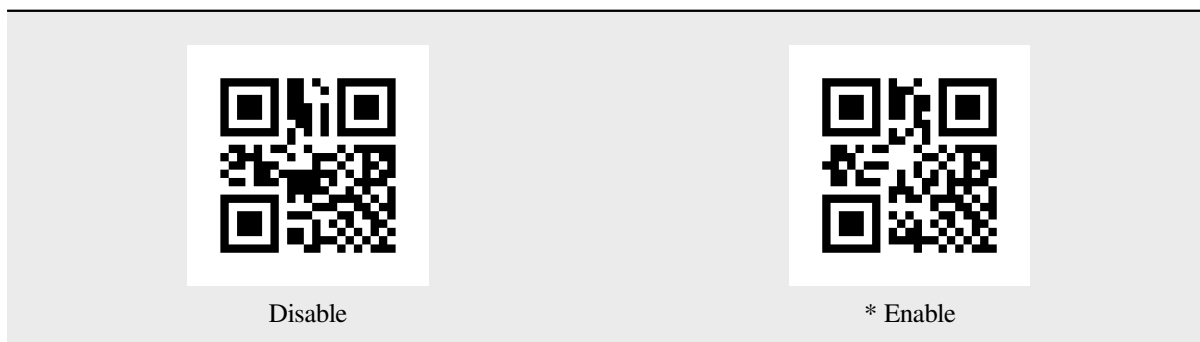
EAN-13 Switch

Scan the following Parameter Barcode to enable/disable EAN-13 barcode reading.



EAN-13 Check Digit Transmission

Scan the following Parameter Barcode to set whether EAN-13 transmits check digits.



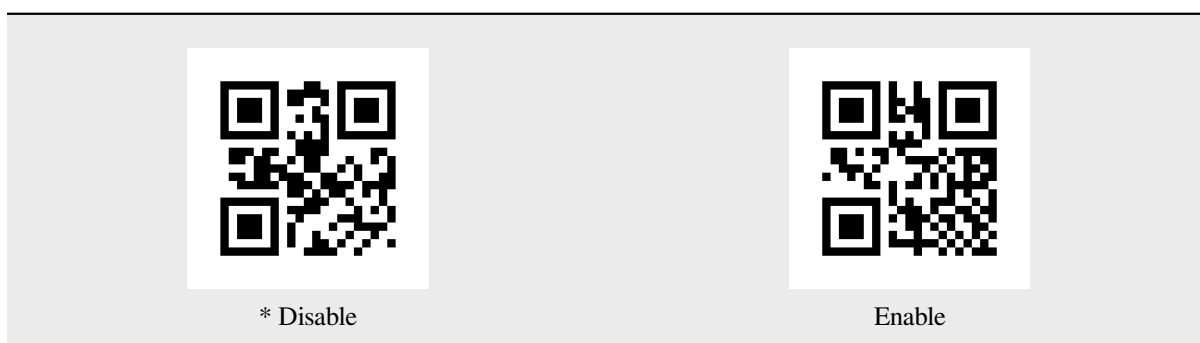
EAN-13 Reads 2-digit Additional Code

Scan the following Parameter Barcode to set whether EAN-13 can read the 2-digit additional code.



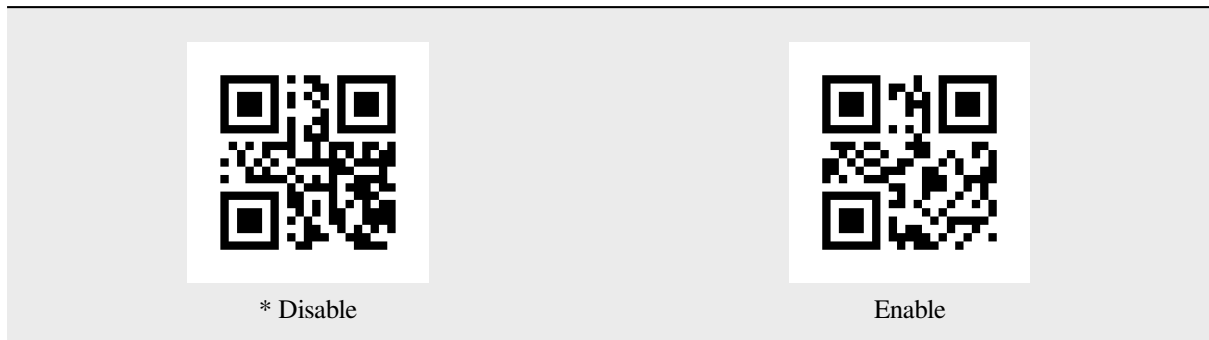
EAN-13 Reads 5-digit Additional Code

Scan the following Parameter Barcode to set whether EAN-13 can read the 5-digit additional code.



Read Only With Add-on Code EAN-13

Scan the following Parameter Barcode to set whether to read only EAN-13 with additional code.

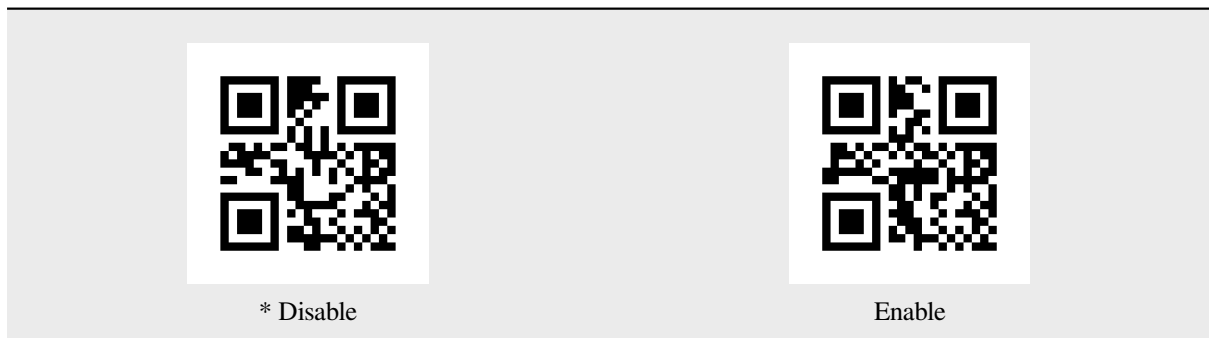


ISSN

Scan the following Parameter Barcode to enable/disable ISSN barcode reading.

Note

Disable ISSN, ISSN will be treated as EAN-13



ISBN

Scan the following Parameter Barcode to enable/disable ISBN barcode reading.

Note

Disable ISBN, ISBN will be treated as EAN-13



* Disable



Enable

UPC-E

UPC-E Switch

Scan the following Parameter Barcode to enable/disable reading of UPC-E barcodes.



Disable



* Enable

UPC-E Check Digit Transmission

Scan the following Parameter Barcode to set whether UPC-E transmits the check digit.



Disable



* Enable

UPC-E Reads 2-digit Additional Code

Scan the following Parameter Barcode to set whether UPC-E can read the 2-digit additional code.

 * Disable	 Enable
--	--

UPC-E Reads 5-digit Additional Code

Scan the following Parameter Barcode to set whether UPC-E can read the 5-digit additional code.

 * Disable	 Enable
---	---

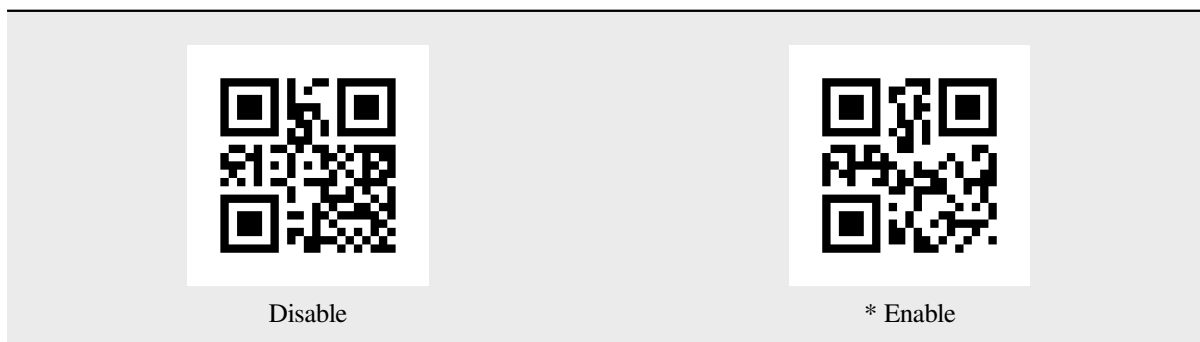
Read Only With Add-on Code UPC-E

Scan the following Parameter Barcode to set whether to read only UPC-E with additional code.

 * Disable	 Enable
--	--

Transmission system character “0”

Scan the following Parameter Barcode to set whether UPC-E transmits the system character “0” .



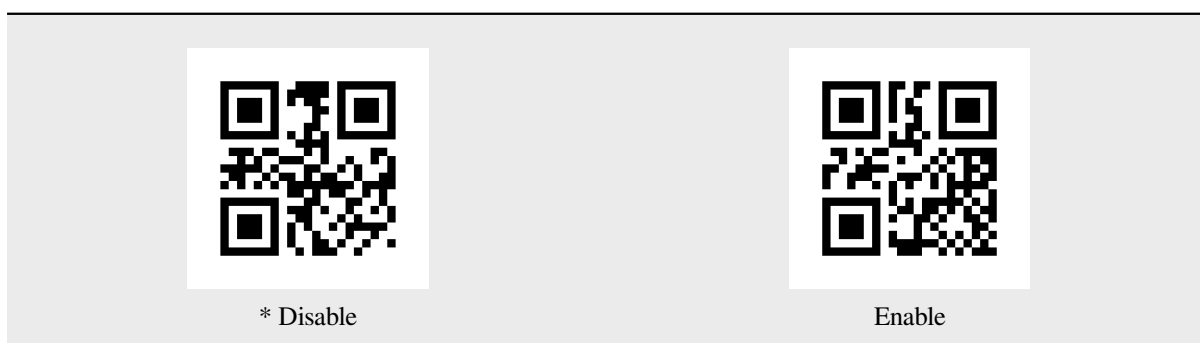
UPC-E To UPC-A

Scan the following Parameter Barcode to set whether to convert UPC-E to UPC-A.



UPC-E1 Switch

Scan the following Parameter Barcode to set whether to read UPC-E1.



Transmit national character “0”

Scan the following Parameter Barcode to set whether UPC-E transmits the national character “0” .

 * Disable	 Enable
--	--

UPC-A

UPC-A Switch

Scan the following Parameter Barcode to enable/disable reading of UPC-A barcodes.

 Disable	 * Enable
---	---

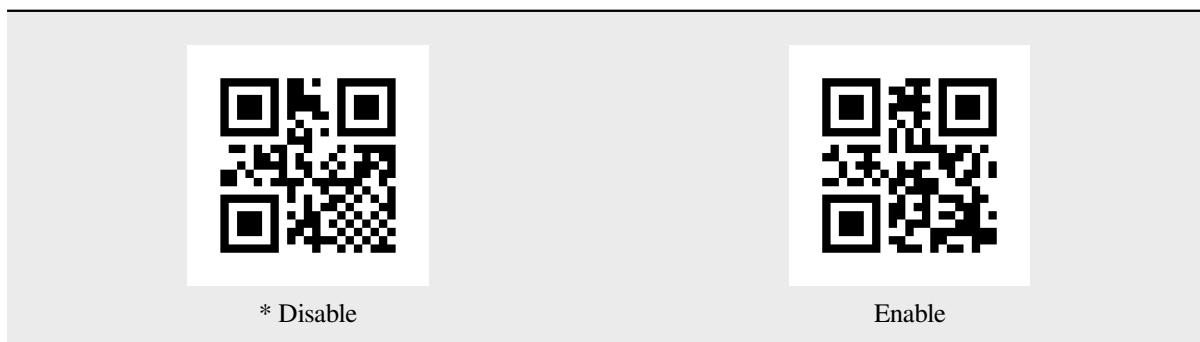
UPC-A Check Digit Transmission

Scan the following Parameter Barcode to set whether UPC-A transmits the check digit.

 Disable	 * Enable
--	--

UPC-A Reads 2-digit Additional Code

Scan the following Parameter Barcode to set whether UPC-A can read the 2-digit additional code.



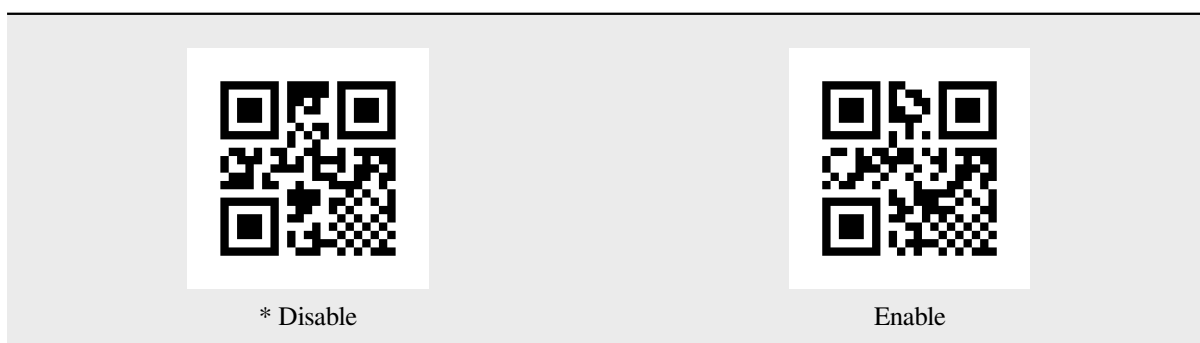
UPC-A Reads 5-digit Additional Code

Scan the following Parameter Barcode to set whether UPC-A can read the 5-digit additional code.



Read Only With Add-on Code UPC-A

Scan the following Parameter Barcode to set whether to read only UPC-A with additional code.



Transmission system character “0”

Scan the following Parameter Barcode to set whether UPC-A transmits system characters.

 Disable	 * Enable
--	--

Transmit national character “0”

Scan the following Parameter 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

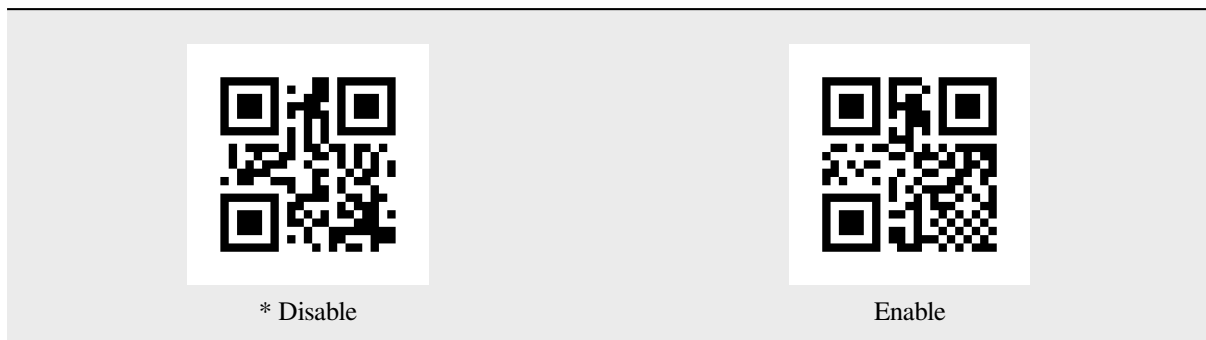
ITF25 Switch

Scan the following Parameter Barcode to enable/disable reading of ITF25 barcodes.

 Disable	 * Enable
--	--

ITF25 Check Digit Verification

Scan the following Parameter Barcode to set whether the ITF25 check digit is verified.

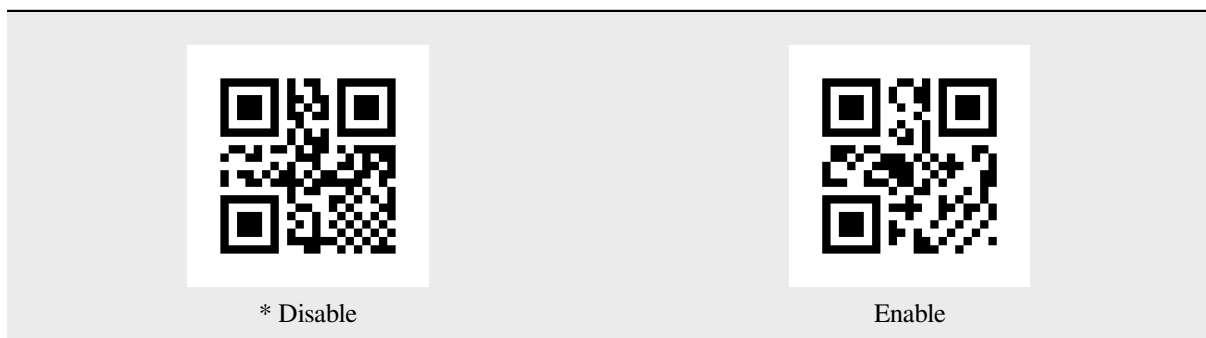


ITF25 Check Digit Transmission

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

ITF25 minimum length Parameter Barcode content format: >!0000B3XX.

XX

Set variable, decimal range 0–255.

Example

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

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

Method 2: Scan the manual Parameter Barcode

Scan the “ITF25 minimum length” Parameter Barcode



ITF25 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

ITF25 Maximum Length

There are two methods for setting the maximum length of ITF25. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

ITF25 maximum length Parameter Barcode content format: >!0000B4XX.

xx

Set variable, decimal range 0–255.

Example

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

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

Method 2: Scan the manual Parameter Barcode

Scan the “ITF25 maximum length” Parameter Barcode



ITF25 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Brazilian Government/Bank Code



* Disable



Enable

NEC25/COOP25

NEC25 Switch

Scan the following Parameter Barcode to enable/disable NEC25 barcode reading.

 * Disable	 Enable
--	--

NEC25 Check Digit Verification

Scan the following Parameter Barcode to set whether the NEC25 check digit is verified.

 * Disable	 Enable
---	---

NEC25 Check Digit Transmission

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

NEC25 minimum length Parameter Barcode content format: >!000103XX.

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “NEC25 minimum length” Parameter Barcode



NEC25 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

NEC25 Maximum Length

There are two methods for setting the maximum length of NEC25. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

NEC25 maximum length Parameter Barcode content format: >!000104XX.

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “NEC25 maximum length” Parameter Barcode



NEC25 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

MATRIX25

MATRIX25 Switch

Scan the following Parameter Barcode to enable/disable MATRIX25 barcode reading.

	
* Disable	Enable

MATRIX25 Check Digit Verification

Scan the following Parameter Barcode to set whether the MATRIX25 check digit is verified.

	
* Disable	Enable

MATRIX25 Check Digit Transmission

Scan the following Parameter 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 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

MATRIX25 minimum length Parameter Barcode content format: >!000113XX.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “MATRIX25 minimum length” Parameter Barcode



MATRIX25 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

MATRIX25 Maximum Length

There are two methods for setting the maximum length of MATRIX25. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

MATRIX25 maximum length Parameter Barcode content format: >!000114xx.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “MATRIX25 maximum length” Parameter Barcode



MATRIX25 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.

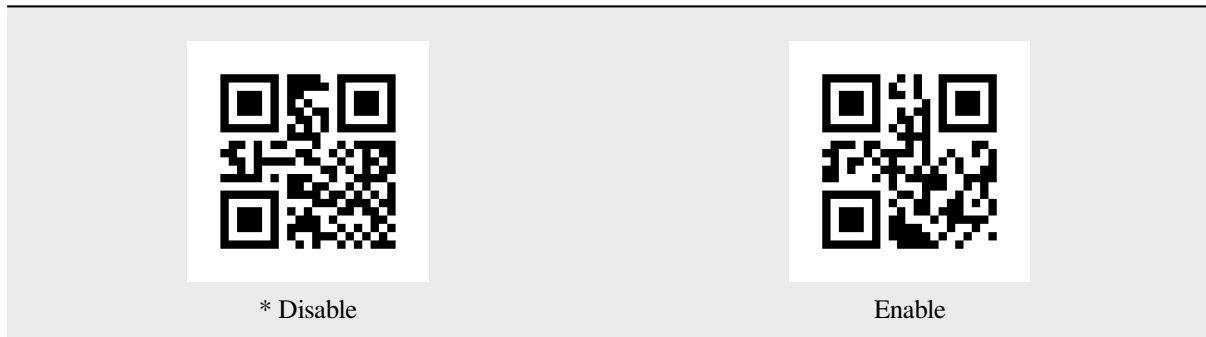


Sure

IND25

IND25 Switch

Scan the following Parameter Barcode to enable/disable reading of IND25 barcodes.



IND25 Minimum Length

There are two methods for setting the minimum length of IND25. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

IND25 minimum length Parameter Barcode content format: >!000123XX.

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “IND25 minimum length” Parameter Barcode



IND25 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

IND25 Maximum Length

There are two methods for setting the maximum length of IND25. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

IND25 maximum length Parameter Barcode content format: >!000124XX.

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “IND25 maximum length” Parameter Barcode



IND25 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

STD25

STD25 Switch

Scan the following Parameter Barcode to enable/disable STD25 barcode reading.



* Disable



Enable

STD25 Minimum Length

There are two methods for setting the minimum length of STD25. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

STD25 minimum length Parameter Barcode content format: >!000133XX.

XX

Set variable, decimal range 0–255.

Example

- The minimum length of STD25 is set to 2, then the Parameter Barcode content is: >!0001332.

- The minimum length of STD25 is set to 12, then the Parameter Barcode content is: >!00013312.

Method 2: Scan the manual Parameter Barcode

Scan the “STD25 minimum length” Parameter Barcode



STD25 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

STD25 Maximum Length

There are two methods for setting the maximum length of STD25. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

STD25 maximum length Parameter Barcode content format: >!000134XX.

XX

Set variable, decimal range 0–255.

Example

- The maximum length of STD25 is set to 9, then the Parameter Barcode content is: >!0001349.

- The maximum length of STD25 is set to 20, then the Parameter Barcode content is: >!00013420.

Method 2: Scan the manual Parameter Barcode

Scan the “STD25 maximum length” Parameter Barcode



STD25 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 39

Code 39 Switch

Scan the following Parameter Barcode to enable/disable reading of Code 39 barcodes.



Disable



* Enable

Code 39 check digit verification

Scan the following Parameter Barcode to set whether the Code 39 check digit is verified.

	
* Disable	Enable

Code 39 Check Digit Transmission

Scan the following Parameter 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

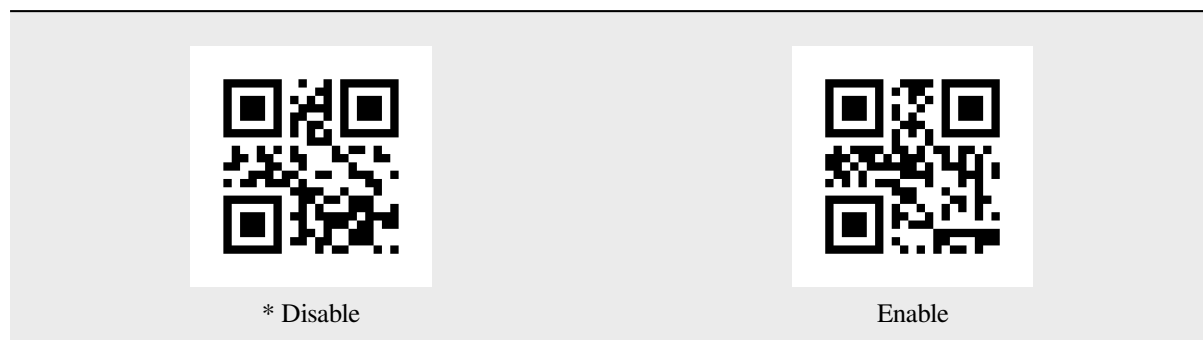
Code 39 Start/Stop Character Transmission

Scan the following Parameter Barcode to set whether the Code 39 start/stop character is transmitted.

	
* Disable	Enable

Code 39 FULL ASCII Switch

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 39 minimum length Parameter Barcode content format: >!000145XX.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Code 39 Minimum Length” Parameter Barcode



Code 39 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 39 Maximum Length

There are two methods for setting the maximum length of Code 39. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 39 Maximum length Parameter Barcode content format: >!000146XX.

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Code 39 Maximum Length” Parameter Barcode



Code 39 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 32 Switch

Scan the following Parameter Barcode to enable/disable the setting of Code 39 to Code 32



* Disable



Enable

Code 32 prefix

Scan the following Parameter Barcode to set whether the Code 32 prefix is transmitted.



* Disable



Enable

Code 32 Check Digit Verification

Scan the following Parameter Barcode to set whether the Code 32 check digit is verified.

	
* Disable	Enable

Code 32 Check Digit Transmission

Scan the following Parameter 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.

	
* Disable	Enable

Codabar

Codabar Switch

Scan the following Parameter Barcode to enable/disable Codabar barcode reading.

	
* Disable	Enable

Codabar Check Digit Verification

Scan the following Parameter Barcode to set whether the Codabar check digit is verified.

	
* Disable	Enable

Codabar Check Digit Transmission

Scan the following Parameter 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/Stop Character Transmission

Scan the following Parameter Barcode to set whether the Codabar start/stop character is transmitted.

	
Disable	* Enable

Codabar Start/Stop Character Format

Scan the following Parameter Barcode to set the Codabar start/stop character format.



* Ordinary ABCD Format



ABCD/TN*E Format

Codabar Start/Stop Character Case

Scan the following Parameter Barcode to set whether the Codabar start/stop character is uppercase or lowercase.



*uppercase



Lower Case

Codabar Minimum Length

There are two methods for setting the minimum length of Codabar. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Codabar minimum length Parameter Barcode content format: >!000156XX.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Codabar Minimum Length” Parameter Barcode



Codabar Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Codabar Maximum Length

There are two methods for setting the maximum length of Codabar. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Codabar maximum length Parameter Barcode content format: >!000157XX.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Codabar Maximum Length” Parameter Barcode



Codabar Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 93

Code 93 Switch

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 93 minimum length Parameter Barcode content format: >!000163XX.

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Code 93 Minimum Length” Parameter Barcode



Code 93 Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 93 Maximum Length

There are two methods for setting the maximum length of Code 93. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 93 maximum length Parameter Barcode content format: `>!000164XX.`

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Code 93 Maximum Length” Parameter Barcode



Code 93 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 11

Code 11 Switch

Scan the following Parameter Barcode to enable/disable reading of Code 11 barcodes.



* Disable



Enable

Code 11 Check Digit Verification

Scan the following Parameter Barcode to set whether the Code 11 check digit is verified.



* No Verification



One Check Digit



Two Check Digits

Code 11 Check Digit Transmission

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 11 minimum length Parameter Barcode content format: >!000173XX.

XX

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Code 11 Minimum Length” Parameter Barcode



Code 11 Minimum Length

Scan the “Numeric Barcode” .

i Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

Code 11 Maximum Length

There are two methods for setting the maximum length of Code 11. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

Code 11 maximum length Parameter Barcode content format: >!000174XX.

XX

Set variable, decimal range 0–255.

i Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “Code 11 Maximum Length” Parameter Barcode



Code 11 Maximum Length

Scan the “Numeric Barcode” .

Example

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

Scan the “OK” Parameter Barcode to complete the setup.



Sure

MSI Plessey

MSI Plessey Switch

Scan the following Parameter Barcode to enable/disable MSI Plessey barcode reading.



* Disable



Enable

MSI Plessey Check Digit Verification

Scan the following Parameter 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

Scan the following Parameter 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. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

MSI Plessey minimum length Parameter Barcode content format: >!000193XX.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “MSI Plessey Minimum Length” Parameter Barcode



MSI Plessey Minimum Length

Scan the “Numeric Barcode” .

Example

- Minimum length 2 digits, scan 2.
- Minimum length 12 digits, scan 1, 2.

Scan the “OK” Parameter Barcode to complete the setup.



Sure

MSI Plessey Max Length

There are two methods for setting the maximum length of MSI Plessey. Method 1 requires the user to generate a QR code and is more flexible when configuring multiple values. Method 2 uses the Parameter Barcodes in this manual; scan them in the specified sequence.

Method 1: Generate Parameter Barcode

MSI Plessey maximum length Parameter Barcode content format: >!000194XX.

xx

Set variable, decimal range 0–255.

Example

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

Method 2: Scan the manual Parameter Barcode

Scan the “MSI Plessey Maximum Length” Parameter Barcode



MSI Plessey Max Length

Scan the “Numeric Barcode” .

Example

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

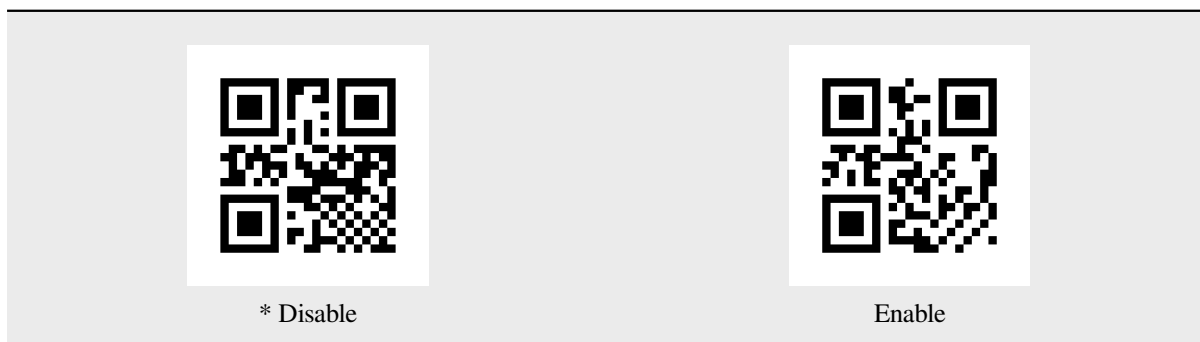
Scan the “OK” Parameter Barcode to complete the setup.



Sure

GS1 DataBar/RSS

Scan the following Parameter Barcode to enable/disable reading of GS1 DataBar barcodes.

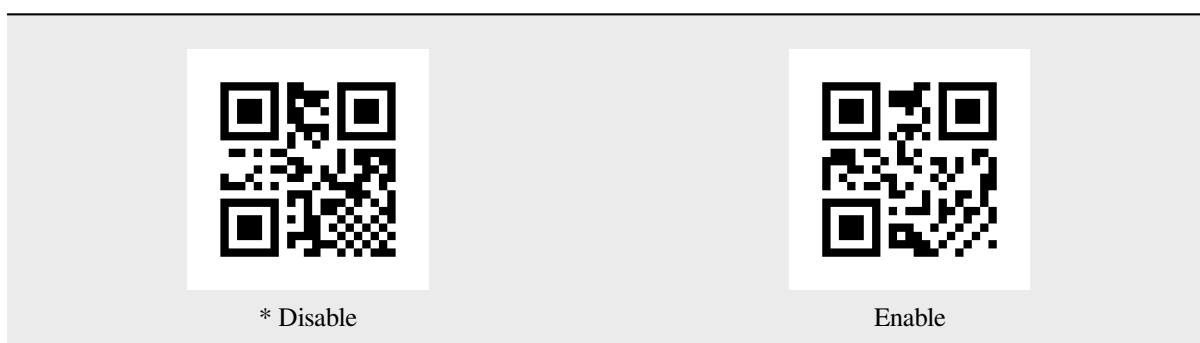


Composite Code

Scan the following Parameter Barcode to enable/disable reading of Composite Code barcodes.

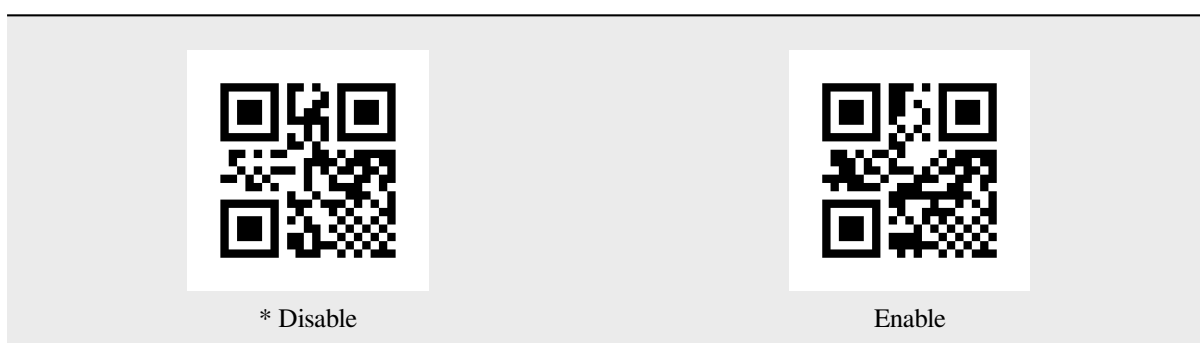
Note

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



TELEPEN

Scan the following Parameter Barcode to enable/disable TELEPEN barcode reading.



TRIOPTIC

Scan the following Parameter Barcode to enable/disable TRIOPTIC barcode reading.



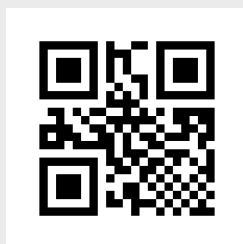
* Disable



Enable

HONG KONG 2 OF 5/CHINA POST

Scan the following Parameter Barcode to enable/disable reading of the HONG KONG 2 of 5 barcode.



* Disable



Enable

Korea Post/Korea Post

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



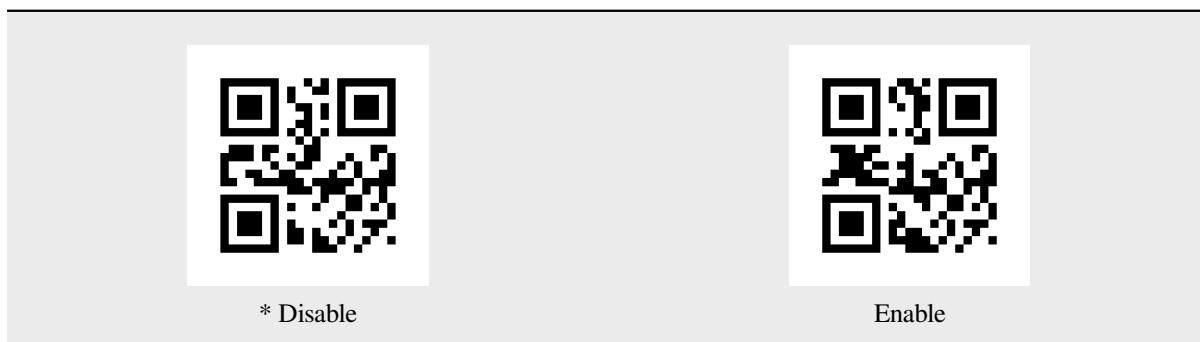
* Disable



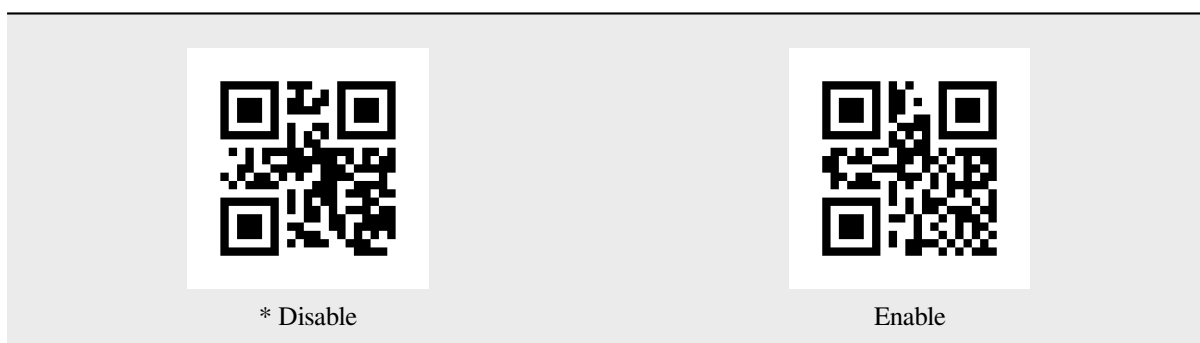
Enable

KOREA POST Check Digit Transmission

Scan the following Parameter Barcode to set whether the KOREA POST check digit is transmitted.



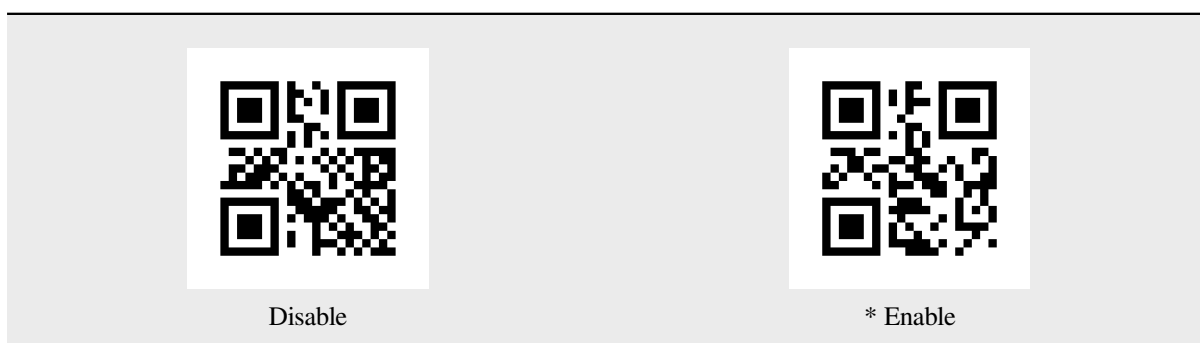
KOREA POST Data Reversed



PDF417

PDF417 Switch

Scan the following Parameter Barcode to enable/disable reading of PDF417 barcodes.



PDF417 Inverse Reading

Scan the following Parameter Barcode to configure PDF417 inverse reading.

 * Read Only Positive Colors	 Read Inverse Barcodes Only
 Read Normal and Inverse Barcodes	

QR Code

QR Switch

Scan the following Parameter Barcode to enable/disable reading of QR barcodes.

 Disable	 * Enable
--	--

QR Code inverse reading

Scan the following Parameter Barcode to configure QR Code inverse reading.

 * Read Only Positive Colors	 Read Inverse Barcodes Only
 Read Normal and Inverse Barcodes	

QR Code Mirror Reading

Scan the following Parameter Barcode to set whether the image QR Code can be read.

 Disable	 * Enable
--	--

Data Matrix (DM)

Data Matrix Switch

Scan the following Parameter Barcode to enable/disable reading of Data Matrix barcodes.

 Disable	 * Enable
--	--

Data Matrix inverse reading

Scan the following Parameter Barcode to configure Data Matrix inverse reading.



* Read Only Positive Colors



Read Inverse Barcodes Only



Read Normal and Inverse Barcodes

Data Matrix Image Reading

Scan the following Parameter Barcode to set whether the image Data Matrix code can be read.



* Disable



Enable

DM ECI Control



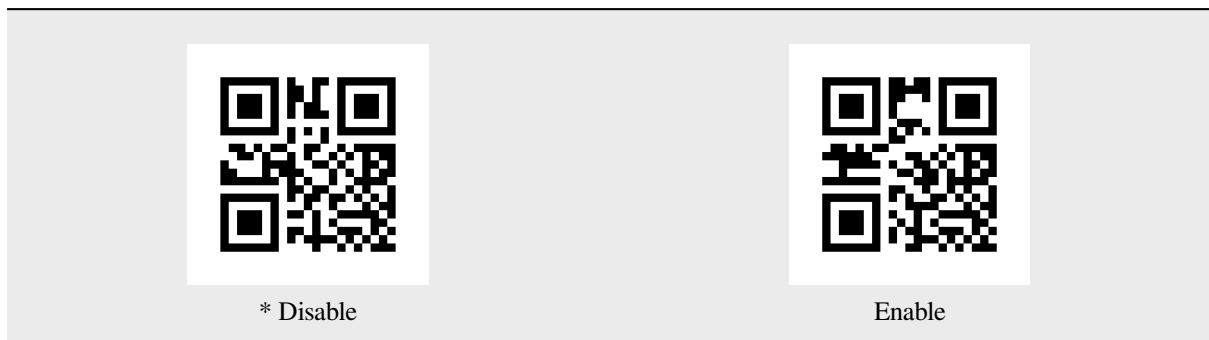
* Disable



Enable

Aztec Code

Scan the following Parameter Barcode to enable/disable reading of AZTEC CODE barcodes.



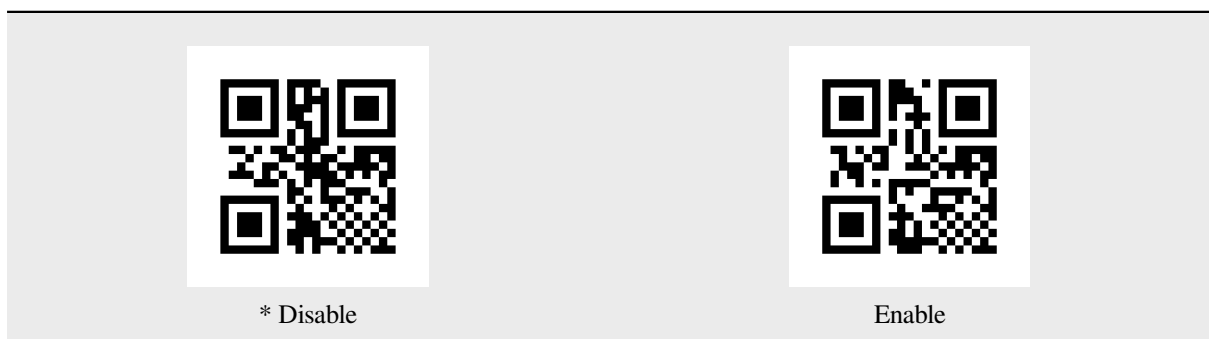
M Series - Symbology Enable/Disable Configuration

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

Scan the following Parameter Barcode to enable/disable reading of PHARMACODE ONE-TRACK barcodes.



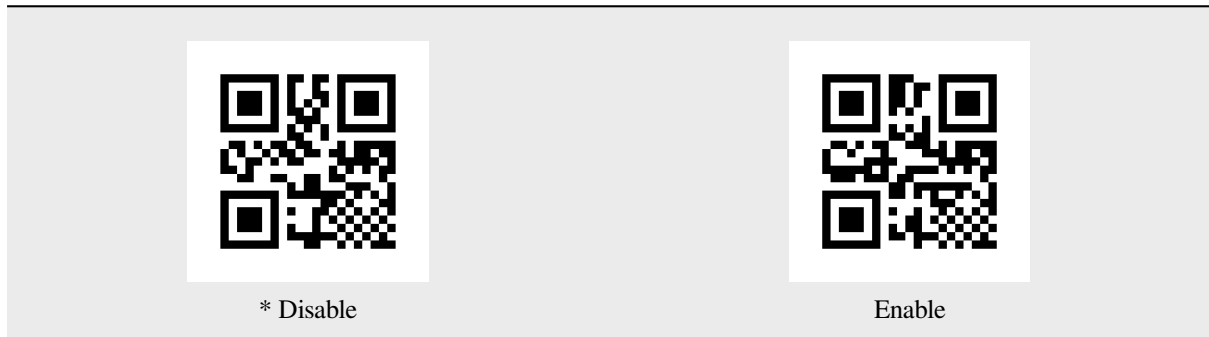
PHARMACODE ONE-TRACK Barcode Direction

Scan the following Parameter Barcode to set the horizontal/vertical direction of the PHARMACODE ONE-TRACK barcode.



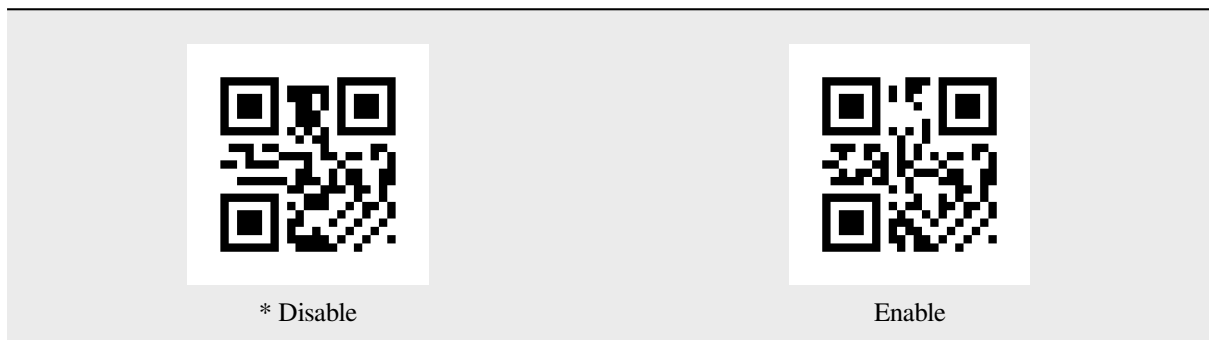
PHARMACODE ONE-TRACK Data Reversed

Scan the following Parameter Barcode to enable/disable inversion of PHARMACODE ONE-TRACK barcode data.



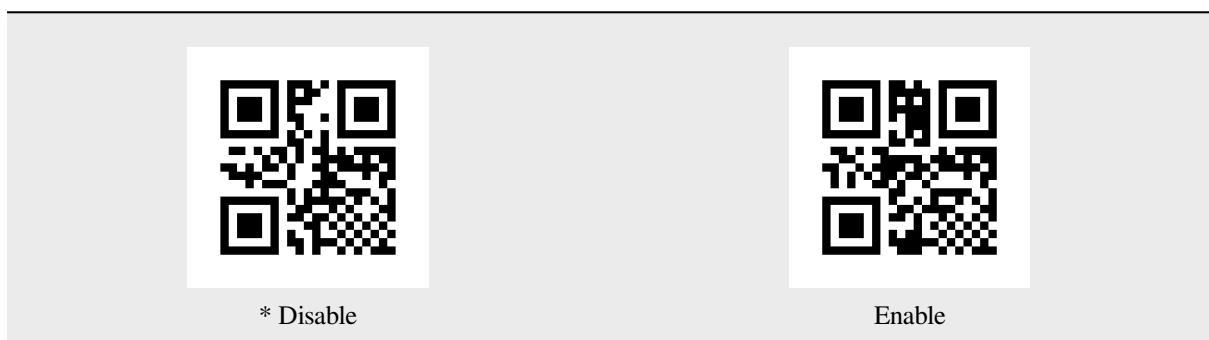
Codablock A

Scan the following Parameter Barcode to enable/disable CODABLOCK A barcode reading.



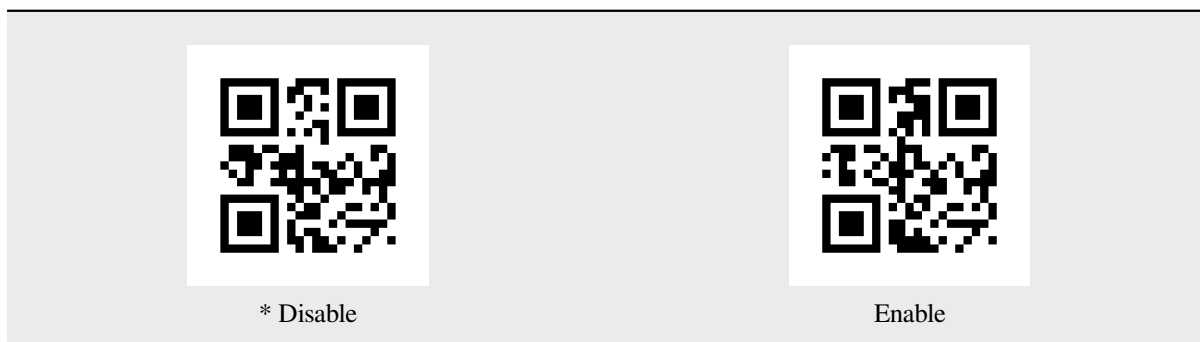
Codablock F

Scan the following Parameter Barcode to enable/disable CODABLOCK F barcode reading.



MaxiCode

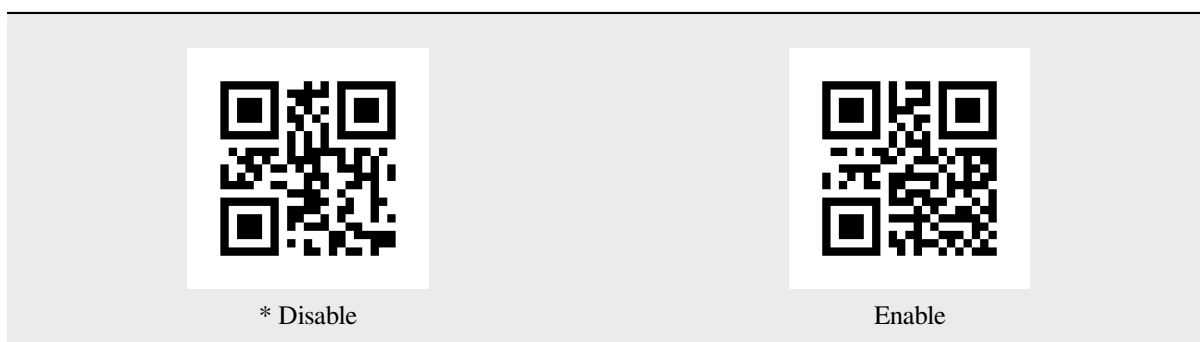
Scan the following Parameter Barcode to enable/disable reading of MaxiCode barcodes.



Han Xin

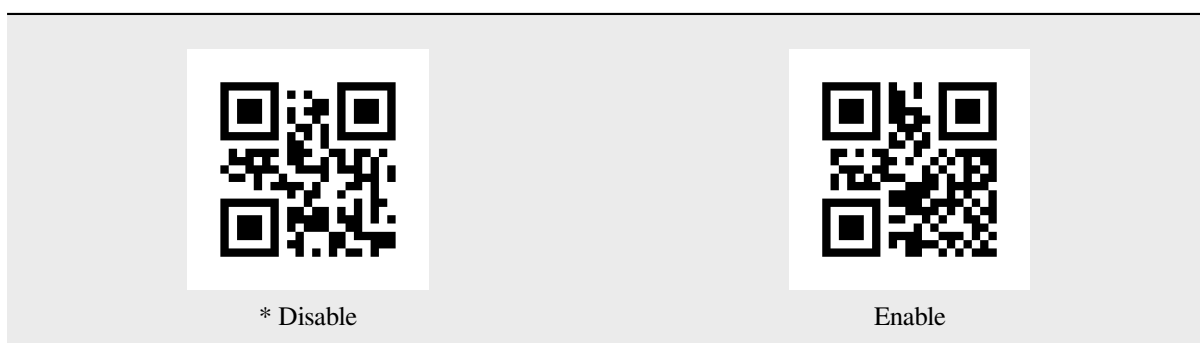
HAN XIN Switch

Scan the following Parameter Barcode to enable/disable reading of HAN XIN barcodes.



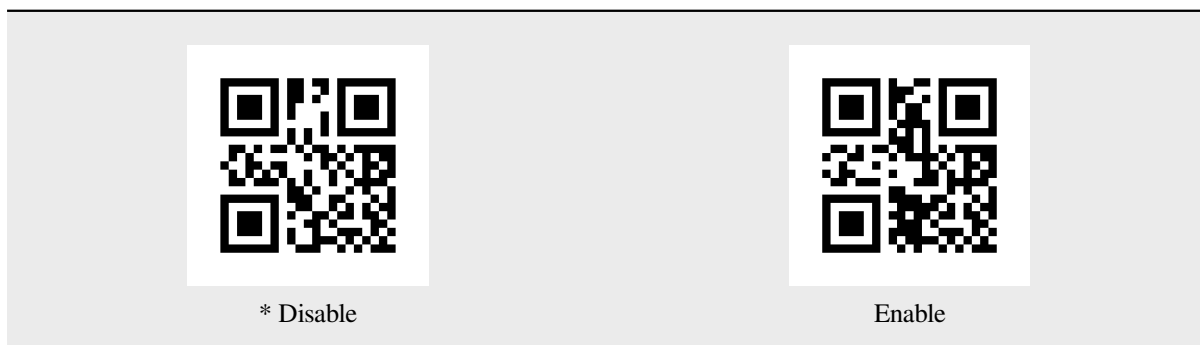
HAN XIN Code ECI Control

Scan the following Parameter Barcode to set whether the HAN XIN code outputs ECI.



DotCode

Scan the following Parameter 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

Scan the following Parameter 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

Scan the following Parameter Barcode to enable/disable transmission of the Planet code check digit.



Disable



* Enable

USPS Postnet Check Digit Transmission

Scan the following Parameter Barcode to set the USPS Postnet check digit to enable/disable transmission.



Disable



* Enable

GM

Scan the following Parameter Barcode to enable/disable GM barcode reading.



* Disable



Enable

OCR

OCR Switch

Scan the following Parameter Barcode to enable/disable OCR character reading.

Note

Only Supports Chinese ID Card Recognition



* Disable



Enable

China ID Card Verification

Scan the following Parameter Barcode to enable/disable ID card verification.



* Disable



Enable

11.6 Engine Parameter Barcodes

Numeric Barcode

The appendix contains numbers 0-9; letters A-F; cancel; confirm Parameter Barcodes.



0



1



2



3



4



5



6



7



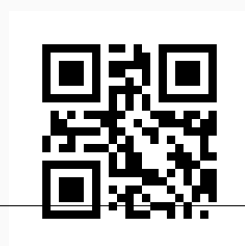
8



9



A



B

12 Appendix

12.1 Character Reference Table

ASCII Function Key Character Reference Table

00H-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

10H-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**20H-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	_

60H-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.