
290 User Manual

Release v1.0.0

2026-06-27

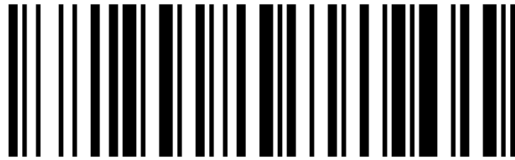
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1 System Settings

1.1 Read firmware version



Read firmware version

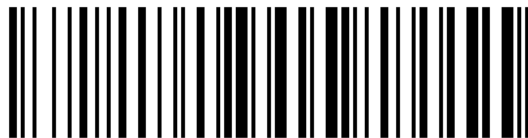
1.2 Restore Factory Defaults

Note

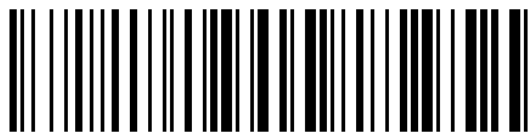
If Write Custom Defaults has been performed, Restore Defaults restores those custom defaults; otherwise it restores factory defaults.

Important

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



Restore custom defaults



Write custom default values



Set factory defaults

1.3 working mode

Note

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

Note

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



* Normal mode



storage mode



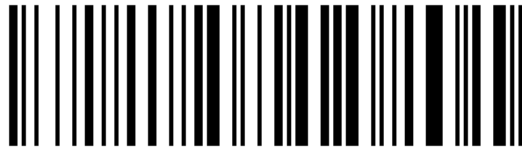
Upload storage data



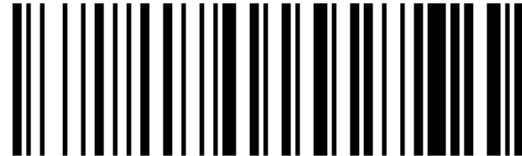
Read the total number of stored barcodes



Clear storage data after uploading



Read storage space usage



Clear stored barcode



* Autosave mode off



Automatic storage mode is on

2 Power management

2.1 Read sleep time



Read sleep time

2.2 Set sleep time



Hibernate now



Sleep after 1 minute



Sleep after 3 minutes (default)



Sleep after 5 minutes



Sleep after 10 minutes



Sleep after 30 minutes



Sleep after 1 hour

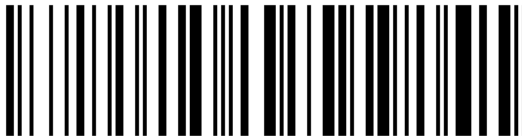


Sleep after 2 hours



never sleep

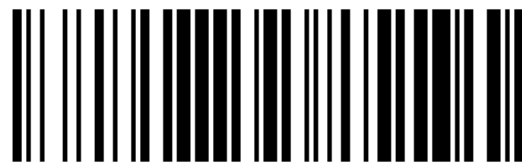
2.3 Get scanner battery level



Get battery level

3 Feedback Indicators

3.1 Buzzer control



mute



* high volume



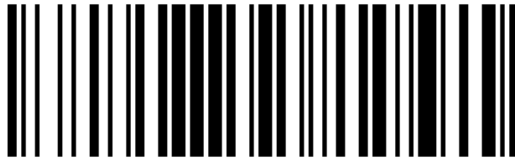
medium volume



low volume



* high pitch



low pitch



* SDK voice response off



SDK voice response enabled



Base connection buzzer prompt switch

3.2 Vibration motor control

Note

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



Disable



Enable

3.3 Buzzer sound definition

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

3.4 Indicator definition

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

4 wired mode

Note

Only applicable to scanners that support wired transmission.

4.1 USB transfer method



* USB keyboard mode



USB virtual serial port mode

Note

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



* Wired/wireless automatic selection turns on



Wired/wireless automatic selection off

4.2 USB keyboard transfer speed

Note

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



* top speed



top speed



medium speed



medium speed



Read keyboard speed



Read keyboard speed

4.3 USB HID multi-key send settings

Note

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



USB HID multi-key sending enabled



* USB HID multi-key sending off

5 wireless mode

Note

Only suitable for scanners that support 2.4G transmission.

5.1 Read Interface Settings



Current Interface Settings

5.2 Wireless transmission method

Note

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



2.4G transmission mode

5.3 2.4G pairing

Important

Only valid in wireless 2.4G mode.



Start 2.4G pairing



one-to-one pairing

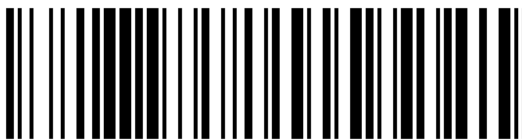


One-to-one pairing

5.4 Receiver working mode

Note

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



Receiver as composite device



Receiver as virtual serial port

Note

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



receiver as keyboard

Receiver keyboard transmission speed

Note

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

Important

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



Read keyboard speed

Example

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



receiver keyboard high speed



Receiver Keyboard Medium Speed



Receiver Keyboard Low Speed

Note

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

5.5 2.4G transmission cache

Note

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

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



SRAM cache switch

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



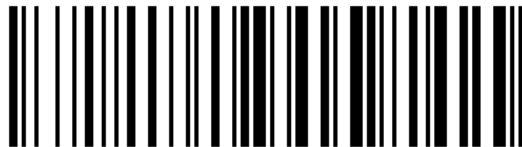
Offline caching switch

6 Bluetooth Mode

Note

Only suitable for RF+BT scanners with Bluetooth function.

6.1 Read Interface Settings



Current Interface Settings

6.2 Bluetooth Transmission Mode

Note

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



Bluetooth Transmission

6.3 Bluetooth Operating Mode

Note

Valid only in Bluetooth mode.

Note

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



Bluetooth HID Keyboard (Default)



Bluetooth SPP Serial Port



Bluetooth BLE Serial Port



Bluetooth cradle transmission mode

Note

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

6.4 Change Bluetooth Name

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

6.5 Clear Bluetooth HID Pairing

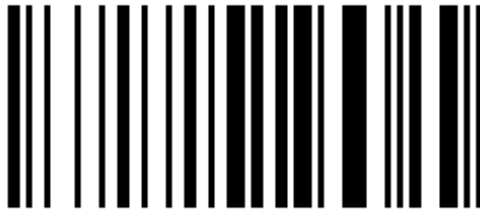
After scanning “Clear Pairing” in Bluetooth transmission mode, the scanner will disconnect the currently paired device and clear the pairing list, then wait for new devices to be paired. Historically paired devices need to be deleted and paired again.



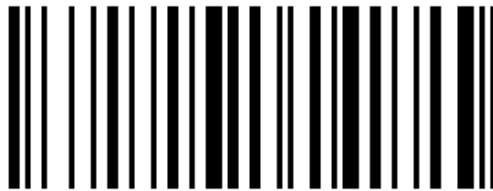
Clear Bluetooth Pairing

6.6 System Keyboard Functions

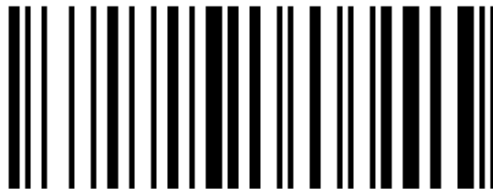
iOS system pop-up keyboard function



iOS pop up/hide keyboard



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



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



Pop up iOS keyboard switch after sending

Windows Caps Lock detection

Note

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



Windows Caps Lock detection switch

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

Note

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



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

6.8 Bluetooth keyboard transmission speed

Note

Valid only in Bluetooth mode.



Read Bluetooth HID delay



High speed (2 ms)



High speed (6 ms)



* Medium speed (10 ms)



Medium speed (18 ms)



Low speed (25 ms)

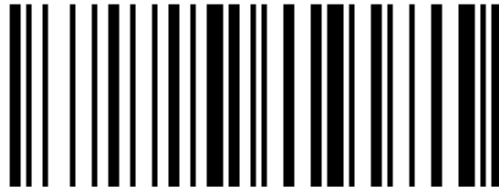


Low speed (30 ms)

6.9 Bluetooth connection status non-sleep setting

Note

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



Bluetooth connection status non-sleep switch

7 Keyboard Settings

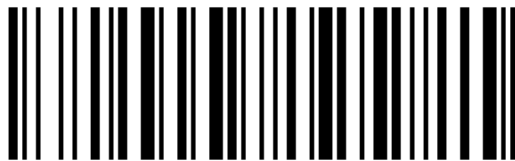
7.1 HID Keyboard General Setting

HID common settings

Note

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

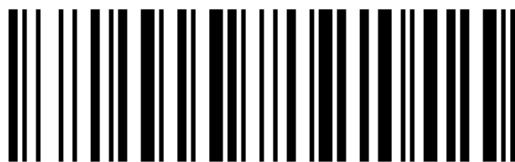
Ctrl key combination settings



* Combine-Key Off



Ctrl+ Key Config1



Alt+ Key Config2



Normal-Key Config3



Ctrl+ Key Config4



Alt+ Key Config5

Note

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

Case settings



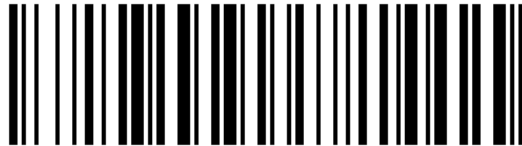
normal



Swap case



all caps



all lowercase

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

Num Lock Settings



Num Lock Settings



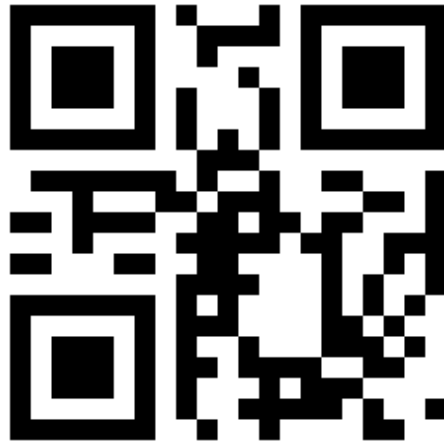
Num Lock on

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

Enter character set settings

Note

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



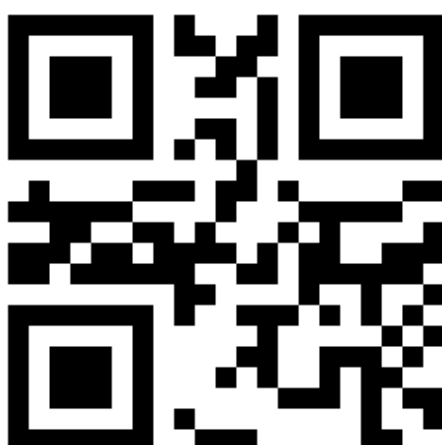
Read the current character set settings



automatic



GBK / BIG5 / HANGUL / SJIS



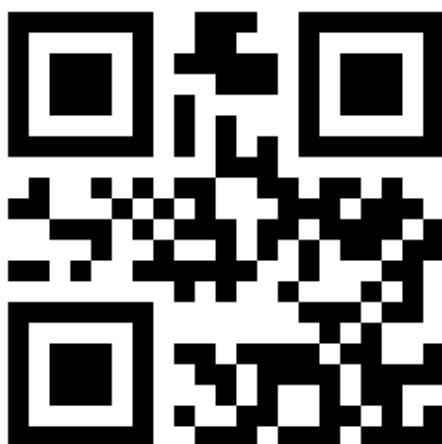
ISO/IEC 8859



UTF8 (Word)



UTF8 (Txt)



Normal mode

illustrate:

model	Applicable scenarios	Code scan engine 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”

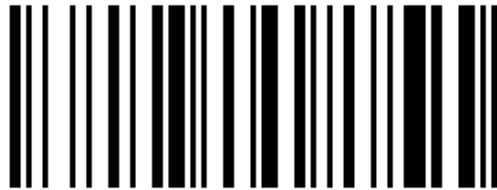
7.2 Keyboard language settings

 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



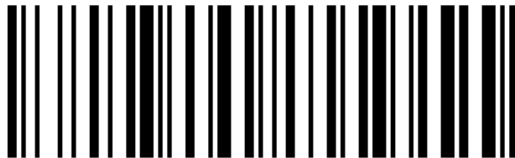
Italian keyboard

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

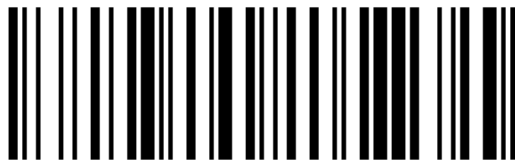


Czech keyboard



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

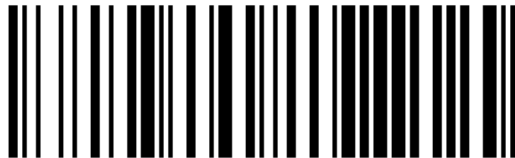
Note

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

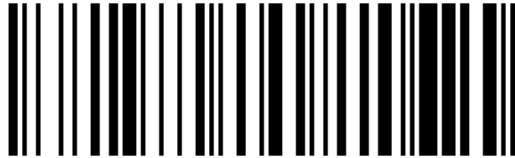
For character values, please refer to *ASCII Function Key Character Reference Table* and *ASCII Character Reference Table*; for parameters that require input of numerical values, please scan *Numeric Setup Codes*; for specific procedures, see *Add a Prefix or Suffix*.

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



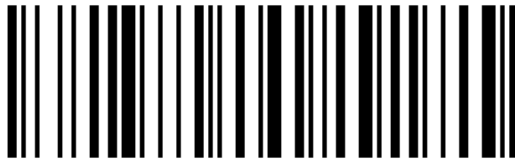
Hide Leading Characters



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



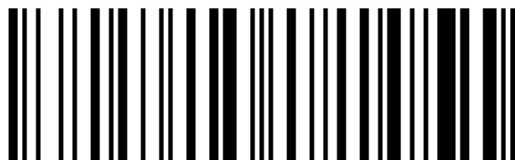
Allow Prefix Output



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#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, 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



Start Setup

11 Module Settings

11.1 Device Feature Settings

Important

When modifying the parameters on this page, scan “Start Settings” first, then scan the target setting barcode; scan “End Settings” after completion.

Lighting settings

Built-in fill light setting



Enable built-in fill light



Disable built-in fill light

Fill light brightness setting



Fill light low brightness



Fill light medium brightness



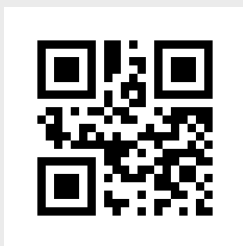
High brightness fill light





Start Setup

External fill light settings



Enable external fill light



Disable external fill light

Aimer Settings



Enable aiming light



Disable aiming light

11.2 Trigger Settings

Important

When modifying the parameters on this page, scan “Start Settings” first, then scan the target setting barcode; scan “End Settings” after completion.

Reading mode settings



Button trigger



Auto sensing mode





Start Setup

Continuous Decode Mode



Continuous Decode Mode

Decoding timeout setting in continuous reading mode



Decoding timeout 0 ms



Decoding timeout 1500 ms



Decoding timeout 3000 ms



Decoding timeout 5000 ms



Decoding timeout MAX





Start Setup

Same code delay setting in continuous reading mode



Same code delay 0 ms



Same code delay 1500 ms



Same code delay 3000 ms



Same code delay 5000 ms



Same code delay MAX





Start Setup

Sensitivity setting in auto-sensing mode



Sensitivity set to 30



Sensitivity set to 25



Sensitivity set to 20



Sensitivity set to 15



Sensitivity set to 10



Sensitivity set to 8



Sensitivity set to 5



Sensitivity set to 3



Sensitivity set to 1





Start Setup

11.3 Engine output format

Important

When modifying the parameters on this page, scan “Start Settings” first, then scan the target setting barcode; scan “End Settings” after completion.

Terminator settings



Add CR terminator



Add CRLF terminator



Add tab terminator



cancel terminator



Add LF terminator

11.4 Symbology Settings

Important

When modifying the parameters on this page, scan “Start Settings” first, then scan the target setting barcode; scan “End Settings” after completion.

General Symbology Switches





Start Setup

Important

When modifying this group of parameters, scan “Start Settings” first, then scan the target setting barcode; scan “End Settings” after completion.

All 1D codes



Enable All 1D Symbolologies



Disable All 1D Symbolologies

All QR codes



Enable All 2D Symbolologies



Disable All 2D Symbolologies

One-dimensional code switch





Start Setup

Important

When modifying this group of parameters, scan “Start Settings” first, then scan the target setting barcode; scan “End Settings” after completion.

Code 128 code



Enable Code 128 code



Disable Code 128 code

EAN-8 code



Enable EAN-8 code



Disable EAN-8 code

EAN-13 code



Enable EAN-13 code



Disable EAN-13 code





Start Setup

UPC-A code



Enable UPC-A code



Disable UPC-A codes

UPC-E code



Enable UPC-E code



Disable UPC-E codes

Code 39



Enable Code 39



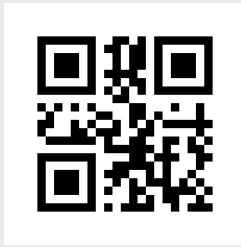
Disable Code 39



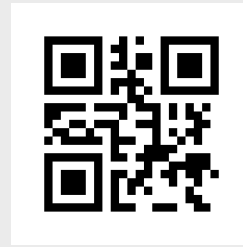


Start Setup

Codabar code



Enable Codabar codes



Disable Codabar codes

Code 93 code



Enable Code 93



Disable Code 93

ITF25 code



Enable ITF25 code



Disable ITF25 code

QR code switch





Start Setup

Important

When modifying this group of parameters, scan “Start Settings” first, then scan the target setting barcode; scan “End Settings” after completion.

QR code



Enable QR Code



Disable QR Code

Data Matrix (DM) code



Enable Data Matrix (DM) codes



Disable Data Matrix (DM) codes



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.