

Image type 2D Omnidirectional Scanner

User Configuration Manual(Reference)

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Desktop Scanner Connection

Connect the scanner to the dedicated connector on the included cable and the other end to the corresponding port on the PC.

If the bar code configuration switch has been turned off, refer to page 2 to turn on the bar code configuration switch.

When the setting code function is turned on, all setting barcodes can be scanned for scanner setting.

When the setting code function is turned off, other configuration barcodes cannot be scanned for scanner setting. You need to scan the setting code for scanner setting.



Scan setting code function turned on (default)



Scan setting code function turned on

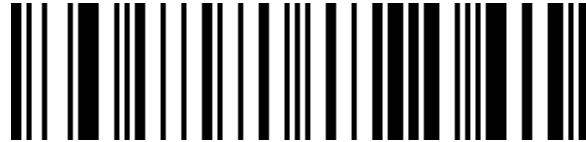
Version



Version number

Product default settings

Scan the following "the factory default setting" CODE



factory default

Product user configuration

Scan the barcode below to save the current parameters of the product as user setting.



Save user configuration

Scan the barcode below to restore the product to a saved user configuration.



Restore user configuration

Interface Mode

The scanning device supports USB keyboard, USB to serial port, serial port interface mode..

Scan the barcode below to configure USB PC keyboard and USB MAC keyboard mode.



USB Keyboard(default)

Scan the barcode below to configure the scanner to serial mode.



Serial port

Scan the barcode below to configure the scanning platform to USB to serial mode. (The driver needs to be installed,

please contact the seller)



USB to serial port

USB Keyboard Setting

Control character escaping



Enable control character escaping



Disable control character escaping (default)

Bar code content contains carriage return line feed processing (USB Keyboard)



Only 0A (newline LF) line feed



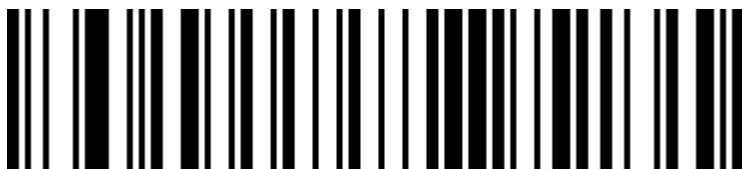
Only 0D (carriage return CR) line feed (default)



0A (newline LR) and 0D (carriage return CR) are wrapped

USB Keyboard sending speed

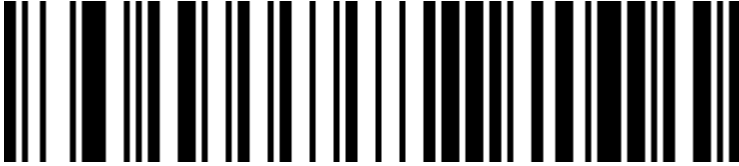
Used to configure the speed when sending data in USB keyboard mode. If the PC you are using has low performance, it is recommended to choose a low speed to ensure transmission accuracy.



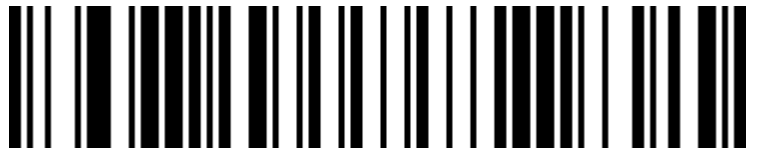
Low send speed (default)



Medium send speed



High send speed



Custom send speed (2ms~50ms)

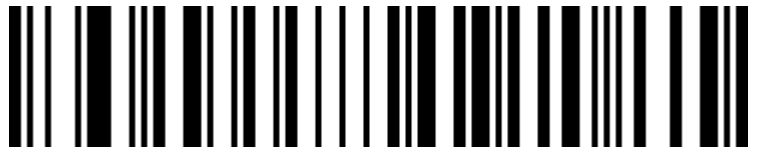
USB Keyboard case output control



Normal output (default)



Normal output (default)



All uppercase

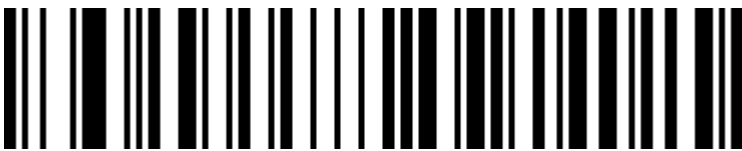


All lowercase

Keyboard Layouts



English (United States) (default)



French (France)



Italian (Italy)



Italian 142 (Italy)



German (Germany)



Spanish (Spain)



Spanish (Latin America)



Finnish



Japanese



Russian (MS)



Russian (typewriter)



Arabic (101)



Irish



Polish (214)



Polish (Programmers)



Dutch (Netherlands)



Czech (QWERTZ)



Portuguese (Portugal)



Portuguese (Brazil)



Swedish (Sweden)



Turkish Q



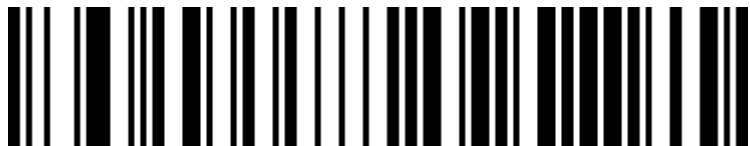
Turkish F



Greek (MS)



French (Belgium)



English (UK)

virtual keyboard

Mode 1: The characters between 0x20 and 0xFF are output in the virtual keyboard mode that is not supported by the current keyboard layout. The characters between 0x00 and 0x1F are output according to the control characters (see Appendix).

Mode 2: All characters between 0x20 and 0xFF are output using the virtual keyboard mode. Characters between 0x00 and 0x1F are output according to the control characters (see appendix).

Mode 3: The characters used between 0x00 and 0xFF are output using the virtual keyboard mode.



Virtual keyboard off (default)



Virtual keyboard open (mode 1)

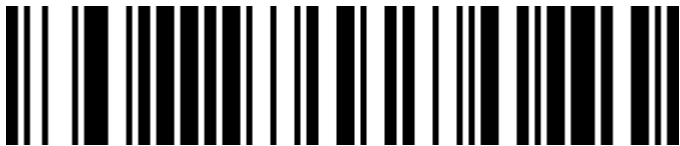


Virtual keyboard open (mode 2)



Virtual keyboard open (mode 3)

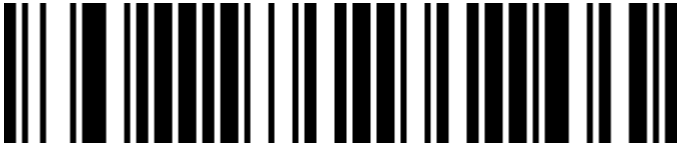
Host operating system selection in virtual keyboard mode



WINDOWS(default)



MAC OS

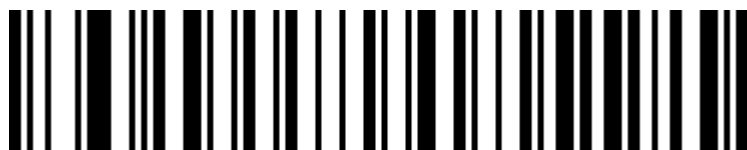


LINUX

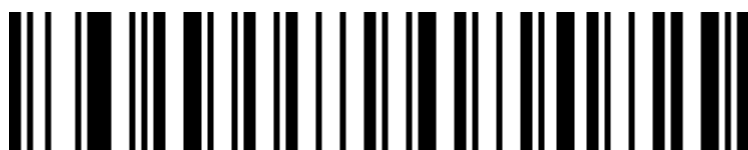
Output encoding format

In order to output correctly according to the specified encoding format, you need to specify the output encoding format, such as Simplified Chinese in Notepad / excel output configuration into GBK encoding, in Word and other output configured into UNICODE encoding.

When the output encoding format is configured as English/Latin-1 encoding, the output mode of the USB keyboard is affected by the virtual keyboard function switch. When the output encoding format is configured as GBK encoding / UNICODE encoding, the output mode of the USB keyboard is forced to be the virtual keyboard output.



Native keyboard output (default)



Chinese GBK code (Notepad/excel)



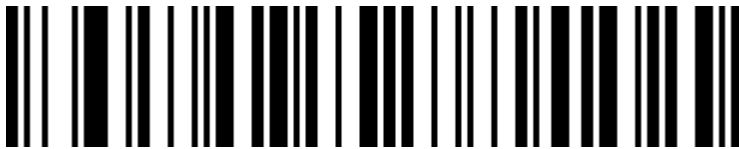
UNICODE encoding (Word)

Invoice function

Enabl and Disable invoice function



Disable the invoice function (default)



Enable invoice function

To ensure the correct output of the invoice content, when enable the invoice code function, please configure the Chinese character output mode to GBK code (Notepad/excel), and turn off the function of changing the original content of the barcode, such as CodeID, custom pre/suffix, and start character.

Invoice type selection



Special invoice (default)



General invoice

Serial port configuration

Serial port baud rate configuration



Baud rate 4800



Baud rate 9600 (default)



Baud rate 19200



Baud rate 38400



Baud rate 57600

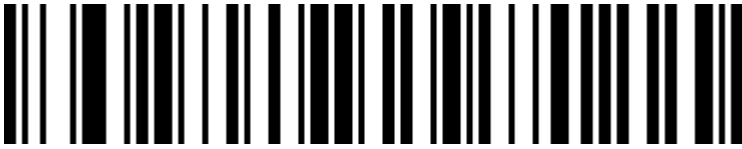


Baud rate 115200

Serial data bit, stop bit, check bit configuration



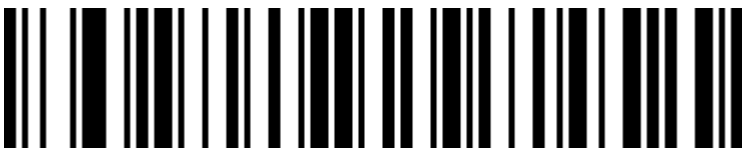
7-bit data, 1 stop, no parity



7-bit data, 1 stop, even parity



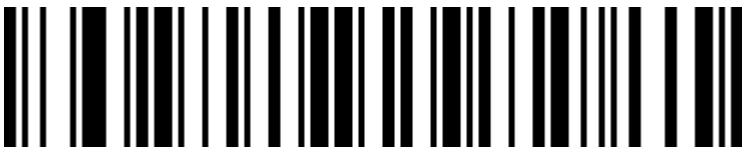
7-bit data, 1 bit stop, odd parity



7-bit data, 2 stops, no parity



7-bit data, 2 bits stop, even parity



7-bit data, 2 bits stop, odd parity



8-bit data, 1 stop, no parity (default)



8-bit data, 1 bit stop, even parity



8-bit data, 1 bit stop, odd parity



8-bit data, 2 stops, no parity



8-bit data, 2 bits stop, even parity



8-bit data, 2-bit stop, odd parity

GS control character replacement



Not replaced

To output the character "Ç", you must first scan "virtual keyboard open (mode one)" or (mode two) or (mode three)



Replaced with Ç



Replaced with |



Replaced with ^]



Replaced with]



Replaced with <GS>

Scan mode

Scan mode



Normal mode



1D fast scanning mode

Heavy code detection

Used to configure the interval for solving the same barcode. If the setup time is not exceeded, the same barcode will only be solved once.



Repeat code detection interval 300ms



Repeat code detection interval 500ms (default)



Repeat code detection interval 750ms



Heavy code detection interval 1s



Repeat code detection interval 2s

Lamp configuration

LED Indicator light



Decoding successful LED prompt light off



Decoding successful LED prompt light on (default)

Buzzer configuration

Volume

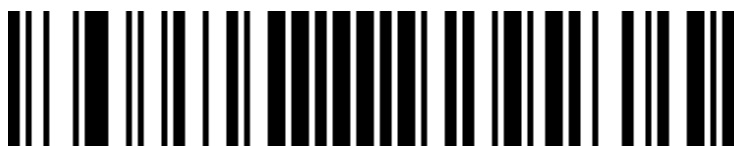


Low volume



high volume (default)

Scanner start tone switch



Scanner start tone off



Scanner start tone sound (default)

.Successfully decoding the tone switch



Successful decoding of the prompt tone



Successful decoding prompt tone (default)

Successful decoding of the prompt tone rate (tone)



Successful decoding prompt tone rate 1 (default)



Successful decoding prompt tone rate 2 (default)



Successful decoding prompt tone rate 3 (default)

Successful decoding of the prompt duration



Decoding success tone 1 (default)



Error warning audio rate (tone)

In the event of a data transmission failure, there will be four consecutive error warning sounds, and a single error warning tone will appear when scanning an unrecognized configuration code..



Error warning audio rate is low (default)



Error warning in audio rate



Error warning high audio rate

Prefix and suffix configuration

Starter



Do not use start character (default)



Starter is set to STX

Terminator



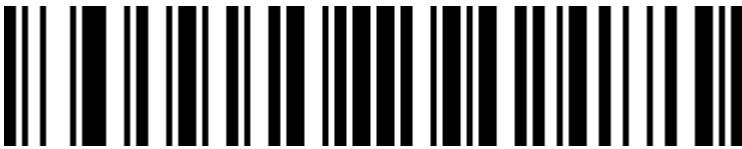
Do not use terminator



The terminator is set to enter



The terminator is set to a newline



The terminator is set to carriage return (default)



The terminator is set to a tab



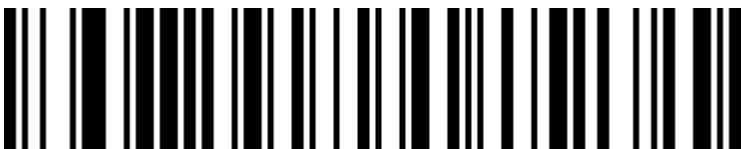
The terminator is set to ETX

Custom prefix

Output options



Enable custom prefix output



Disable custom prefix output (default)

edit



Clear all custom prefixes

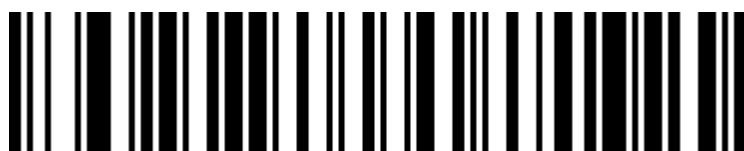


Custom prefix

(After scanning, please follow the bar code type ID table and data and edit bar code in the appendix.)

Custom suffix

Output options



Enable custom suffix output



Disable custom suffix output (default)

edit



Clear all custom suffixes



Custom suffix

(After scanning, please follow the bar code type ID table and data and edit bar code in the appendix.)

Code ID

Output options



Disable CODE ID (default)



Enable CODE ID before barcode



CODE ID after opening barcode

Edit



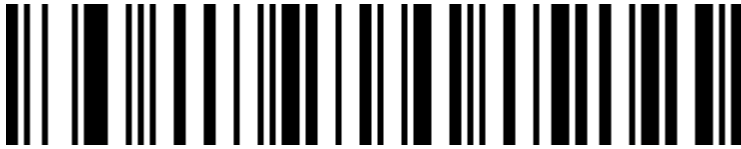
Custom CODE ID

(After scanning, please follow the bar code type ID table and data and edit bar code in the appendix.)



Clear all custom CODE IDs

AIM ID



Disable barcode AIM ID



Enable the barcode before the AIM ID



Enable the barcode after the AIM ID

Data editing

The data editing function can customize the barcode content to the 3 fields of Start/Center/End by configuring the length of the barcode. Please configure the length and transmission configuration of the Start/End field according to actual needs.

Note: Custom suffixes, starters, terminators, CODE IDs, AIM IDs, etc. The contents of non-barcode themselves are not affected by the data editing function..

Transmission configuration



Transfer the full Data field



Transfer only the Start field



Transfer only the Center field



Transfer only the End field

Field length configuration



Set the length of the Start segment



Set the length of the End segment

Note: Field length configuration is configured in bytes using decimal data.

For example: set the length of the Start segment to 10 bytes, scan to set the length of the Start segment, then scan the data in the appendix and edit the 1, 0 in the barcode to save the configuration..

Performance demonstration barcode (temporary configuration, restart failure)



Turn on performance demo mode

Inverse barcode option

(For 1D Barcode / DataMatrix/Aztec)



Only for normal barcodes



Reverse color bar code only



Both normal and reverse barcodes are solvable

Bar code type selection

Enable and disable all barcodes

Enable all barcode types may cause decoding speed to slow down, it is recommended to open the required barcode type according to the usage scenario.

All bar codes are open by default.

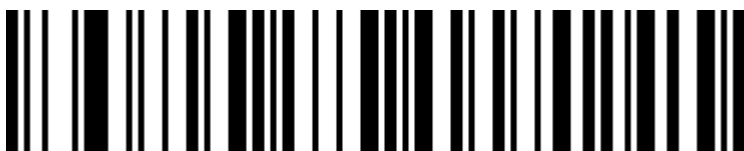


Enable all bar code types



Disable all bar code types

Enable and disable all 1D barcodes



Enable all 1D bar code types



Disable all 1D bar code types

Enable and disable all 2D barcodes



Enable all 2D bar code types



Disable all 2D bar code types

Codabar

Enable/disable barcode



Enable Codabar



Disable Codabar

Codabar Start/end characters



Do not send Codabar start/end characters (default)

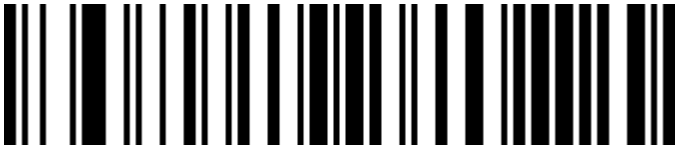


Send Codabar start/end characters

Codabar Length limit setting



Codabar Minimum length limit (0~50 bits)



Codabar Maximum length limit (0~50 bits)

Code 39

Enable and disable barcode



Enable Code 39



Disable Code 39

Code 39 Parity bit



Code 39 Check Disable (default)



Code 39 check enable and does not send checksum bits



Code 39 Check enable and send check bits

Code 39 Full ASCII



Enable Full ASCII



Disable Full ASCII (default)

Code 39 Length limit setting



Code 39 Minimum length limit (0~50 bits)



Code 39 Maximum length limit (0~50 bits)

Code 32 (Code39 is required to enable)

Enable and disable barcode



Enable Code 32



Disable Code 32

Interleaved 2 of 5 (ITF25)

Enable and disable barcode



Enable ITF25



Disable ITF25

Interleaved 2 of 5 (ITF25) Parity bit



ITF25Check Disable (default)



ITF25 Check enable and does not send checksum bits



Interleaved 2 of 5 (ITF25) length selection



ITF25 Arbitrary length (4-24 bits) (default)



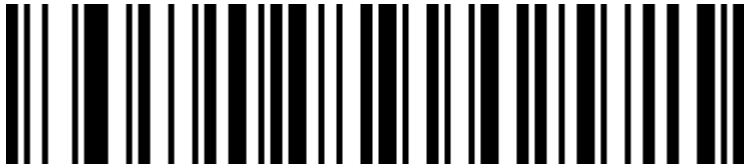
ITF25 6 Bits length



ITF25 8 Bits length



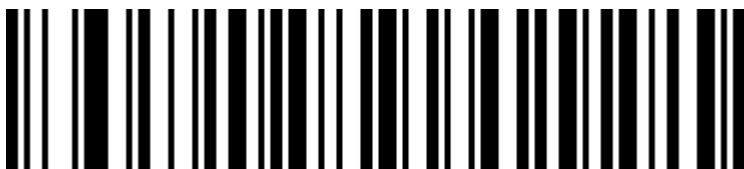
ITF25 10 Bits length



ITF25 12 Bits length



ITF25 14 Bits length



ITF25 16 Bits length



ITF25 18 Bits length



ITF25 20 Bits length



ITF25 22 Bits length

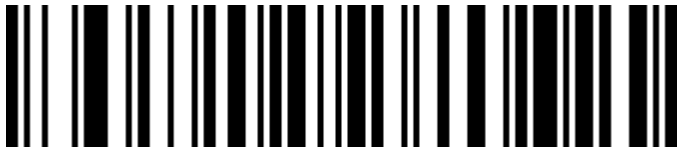


ITF25 24 Bits length

Interleaved 2 of 5 Length limit setting



Interleaved 2 of 5 Minimum length limit (0~50 bits)



Interleaved 2 of 5 Maximum length limit (0~50 bits)

Industrial 2 of 5 (Industrial 25)

Enable and disable barcode



Industrial 2 of 5 Enable

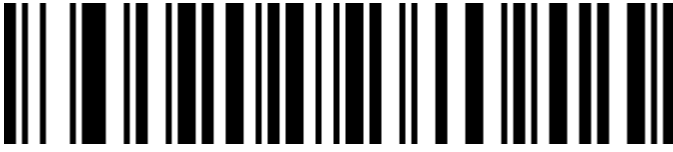


Industrial 2 of 5 Disable

Industrial 2 of 5 Length limit setting



Industrial 2 of 5 Minimum length limit (0~50 bits)



Industrial 2 of 5 Maximum length limit (0~50 bits)

Matrix 2 of 5 (Matrix25) (4-24 bits)

Enable and disable barcode



Matrix 2 of 5 Enable



Matrix 2 of 5 Disable

Matrix 2 of 5 Length limit setting



Matrix 2 of 5 Minimum length limit (0~50 bits)



Matrix 2 of 5 Maximum length limit (0~50 bits)

Code 93

Enable and disable barcode



Code 93 Enable

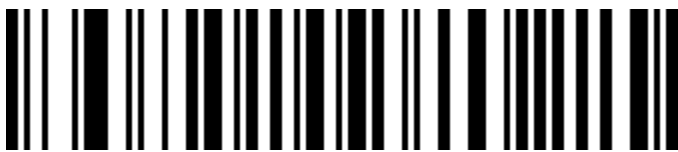


Code 93 Disable

Code 93 Length limit setting



Code 93 Minimum length limit (0~50 bits)



Code 93 Maximum length limit (0~50 bits)

Code 11

Enable and disable barcode



Code 11 Enable



Code 11 Disable (default)

Code 11 Parity bit output



Code 11 Check bit Enable



Code 11 Check bit Disable (default)

Code 11 Check Bit Selection



Code 11 Check Enable (default)



Code 11 1-Check Digit



Code 11 2-Check Digit

Code 11 Length Limit Settings



Code 11 Minimum length limit (0~50bits)



Code 11 Maximum length limit (0~50bits)

128Code

Code 128



Code 128 Enable



Code 128 Disable

GS1-128

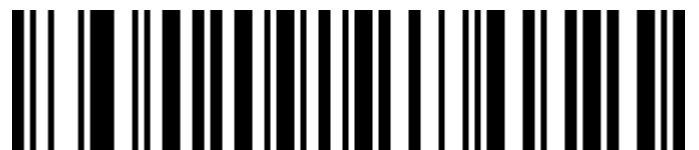


GS1-128 Enable

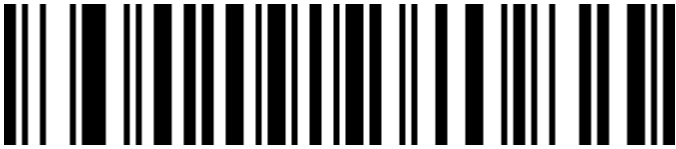


GS1-128 Disable

Code128 Length Limit Settings



Code128 Minimum length limit (0~50bits)



Code 128 Maximum length limit (0~50bits)

UPC-A

Enable and disable barcode



UPC-A Enable



UPC-A Disable

UPC-A Parity bit



Send UPC-A Parity bit (default)



Do not send UPC-A Parity bit

UPC-A Transfer EAN-13



UPC-A transfer EAN-13 Enable



UPC-A transfer EAN-13 Disable (default)

UPC-E

Enable and disable barcode



UPC-E Enable



UPC-E Disable

UPC-E Parity bit



Send UPC-E Parity bit (default)



Do not send UPC-E Parity bit

UPC-E extend UPC-A



UPC-E extendUPC-A Enable



UPC-E extend UPC-A Disable (default)

EAN/JAN-8

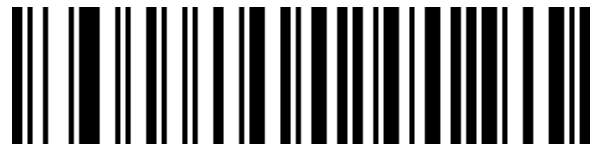


EAN/JAN-8 Enable



EAN/JAN-8 Disable

EAN/JAN-13



EAN/JAN-13 Enable

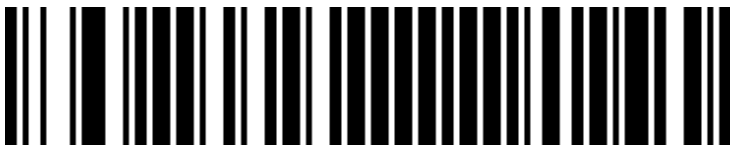


EAN/JAN-13 Disable

UPC/EAN/JAN Add-on Code



Ignores UPC/EAN/JAN Add-on Code (default)



Decoding UPC/EAN/JAN Add-on Code



Adaptation UPC/EAN/JAN Add-on Code

EAN13 Transfer ISBN



Enable EAN13Transfer ISBN Code



Disable EAN13 Transfer ISBN Code (default)

EAN13 Transfer ISSN

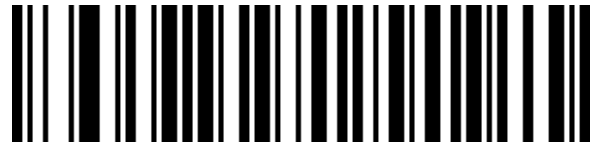


Enable EAN13 transfer ISSN Code



Disable EAN13 Transfer ISSN Code (default)

GS1 DataBar (RSS14)



GS1 DataBar Enable



GS1 DataBar Disable

GS1 DataBar Limited



GS1 DataBar Limited Enable



GS1 DataBar Limited Disable

GS1 DataBar Expanded



GS1 DataBar Expanded Enable



GS1 DataBar Expanded Disable

PDF417



PDF417 Enable



PDF417 Disable

QR Code

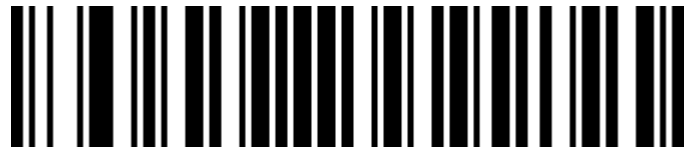


QR Enable

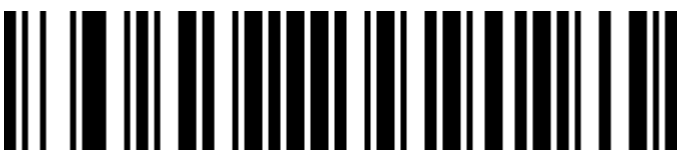


QR Disable

QR Code URL Link



QR Code URL Link Output Disable
(default)



QR Code URL Link output Enable

Micro QR



Micro QR Enable



Micro QR Disable

Data Matrix



Data Matrix Enable



Data Matrix Disable

Aztec Code



Aztec Enable



Aztec Disable

Appendix

Data and Programming Barcode



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Cancel current setting



Cancel the previous list of data



Cancel the data you read last time



Save

Bar code type ID table

Barcode Type	HEX	CODE ID(default)
All barcodes	99	
Codabar	61	a
Code128	6A	j
Code32	3C	<
Code93	69	i
Code39	62	b
Code11	48	H
EAN-13	64	d
EAN-8	64	d
GS1 DataBar	79	y
GS1-128 (EAN-128)	6A	j
2 of 5		
Interleaved 2 of 5	65	e
Matrix 2 of 5	76	v
Industry 2 of 5	44	D
UPC-A	63	c
UPC-E	63	c
ISBN	42	B
ISSN	6E	n
Aztec Code	7A	z
DataMatrix	75	u

PDF417	72	r
Micro PDF417	53	S
QR Code	51	Q
Micro QR Code	51	Q

Visible character ASCII table

<i>10 System</i>	<i>Hexadecimal system</i>	<i>character</i>	<i>10 System</i>	<i>Hexadecimal system</i>	<i>character</i>	<i>10 System</i>	<i>Hexadecimal system</i>	<i>character</i>
32	20	<SPACE>	64	40	@	96	60	`
33	21	!	65	41	A	97	61	a
34	22	"	66	42	B	98	62	b
35	23	#	67	43	C	99	63	c
36	24	\$	68	44	D	100	64	d
37	25	%	69	45	E	101	65	e
38	26	&	70	46	F	102	66	f
39	27	'	71	47	G	103	67	g
40	28	(	72	48	H	104	68	h
41	29	)	73	49	I	105	69	i
42	2A	*	74	4A	J	106	6A	j

43	2B	+	75	4B	K	107	6B	k
44	2C	,	76	4C	L	108	6C	l
45	2D	-	77	4D	M	109	6D	m
46	2E	.	78	4E	N	110	6E	n
47	2F	/	79	4F	O	111	6F	o
48	30	0	80	50	P	112	70	p
49	31	1	81	51	Q	113	71	q
50	32	2	82	52	R	114	72	r
51	33	3	83	53	S	115	73	s
52	34	4	84	54	T	116	74	t
53	35	5	85	55	U	117	75	u
54	36	6	86	56	V	118	76	v
55	37	7	87	57	W	119	77	w
56	38	8	88	58	X	120	78	x
57	39	9	89	59	Y	121	79	y
58	3A	:	90	5A	Z	122	7A	z
59	3B	;	91	5B	[	123	7B	{
60	3C	<	92	5C	\	124	7C	|
61	3D	=	93	5D	]	125	7D	}
62	3E	>	94	5E	^	126	7E	~
63	3F	?	95	5F	_			

Control character set (USB keyboard mode)

10 System	Hexadecimal system	Corresponding key values (control character escape)	Corresponding key value(control character escape on).
0	00	keep	Ctrl+@
1	01	Insert	Ctrl+A

2	02	Home	Ctrl+B
3	03	End	Ctrl+C
4	04	Delete	Ctrl+D
5	05	PageUp	Ctrl+E
6	06	PageDown	Ctrl+F
7	07	ESC	Ctrl+G
8	08	Backspace	Ctrl+H
9	09	Tab	Ctrl+I
10	0A	Enter (performance affected by carriage return line change)	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter (performance affected by carriage return line change)	Ctrl+M
14	0E	Scroll Lock	Ctrl+N
15	0F	Pause/Break	Ctrl+O
16	10	F11	Ctrl+P
17	11	Direction key ↑	Ctrl+Q
18	12	Direction key ↓	Ctrl+R
19	13	Direction key ←	Ctrl+S
20	14	Direction key →	Ctrl+T
21	15	F12	Ctrl+U
22	16	F1	Ctrl+V
23	17	F2	Ctrl+W
24	18	F3	Ctrl+X
25	19	F4	Ctrl+Y
26	1A	F5	Ctrl+Z

27	1B	F6	Ctrl+[
28	1C	F7	Ctrl+\
29	1D	F8	Ctrl+]
30	1E	F9	Ctrl+^
31	1F	F10	Ctrl+_

Control character set (RS232 and USB-com)

<i>10 System</i>	<i>Hexadecimal system</i>	Corresponding characters
0	00	NUL
1	01	SOH
2	02	STX
3	03	ETX
4	04	EOT
5	05	ENQ
6	06	ACK
7	07	BEL
8	08	BS

9	09	HT
10	0A	LF
11	0B	VT
12	0C	FF
13	0D	CR
14	0E	SO
15	0F	SI
16	10	DLE
17	11	DC1
18	12	DC2
19	13	DC3
20	14	DC4
21	15	NAK
22	16	SYN
23	17	ETB
24	18	CAN
25	19	EM
26	1A	SUB
27	1B	ESC
28	1C	FS
29	1D	GS
30	1E	RS
31	1F	US

Some functional configuration instructions and examples

Custom prefix configuration example

The bar code prefix / suffix is configured by scanning code, with a maximum of 10 characters per prefix or suffix. (To ensure that the custom prefix can be output, configure the Scanner's Custom Pre/Suffix Output option to On.)

Example 1.1: Add a custom prefix xyz to all types of bar codes

Query appendix bar code type ID table, all code HEX value is 99. Query the visible character ASCII table. The hex value of xyz is 58, 59, 5a. Scan the configuration code custom prefix, the bar code scanner will issue a "drop.." two-tone, and then scan the appendix data and edit the bar code 9, 9, 5, 8, 5, 9, 5, a, save, that is, complete the configuration.

If you need to modify the scanned bar code before saving, you can also scan to cancel the previous read of the data or cancel the previous read of a series of data to reconfigure. If you need to discard this configuration halfway, scan directly to cancel the current settings.

Example 1.2: Add a custom prefix R to the QR code

Query appendix bar code type id table, QR code hex value is 51. Query the visible character ascii table, the HEX value of R is 52. Scan the configuration code custom prefix, then scan the appendix data and edit the bar code in the 5, 1, 5, 2, save, that is, complete the configuration.

Example 1.3: Cancel the custom prefix of the QR code

When customizing a prefix, a custom suffix for this type of bar code is cleared without adding other characters to save the bar code type.

Scan the configuration code custom prefix, then scan the appendix data and edit the bar code 5, 1, save, that is, complete the configuration.

Note: if you previously have a prefix added for all bar codes, the qr code prefix will be restored to the prefix added to all bar codes after configuration. If you need to clear the prefix / suffix added for

various bar code types, scan to clear all custom prefixes and clear all custom suffix configuration codes.

Example of bar code length limit configuration

When configuring the bar code minimum length limit, you must ensure that the minimum length of the configuration is not greater than the current maximum length configuration, otherwise it will prompt an error. Similarly, when configuring the maximum length limit of bar code, we must ensure that the maximum length of the configuration is not less than the current minimum length configuration.

Example2.1: Configure code 128 bar code length to 4 x 12 bits

Scan the configuration code 128 minimum length limit, then scan the appendix data and edit the bar code 4, save,

Scan the configuration code 128 maximum length limit, then scan the appendix data and edit the bar code 1, 2, save, that is, complete the configuration.

Example2.2: Configure interleaved 2 of 5 bar code length to 14 bits

The configured interleaved 2 of 5 bar code length 14 bits can be configured directly by scanning the 14-bit length of the fast configuration bar code ITF25, or can be configured by the maximum minimum length of the bar code:

Scan the minimum length limit of the configuration code, and then scan the appendix data and edit the 1,4, save in the bar code.

Scan the configuration code interleaved 2 of 5 maximum length limits, and then scan the appendix data and edit the 1,4, save, that is, the configuration in the bar code.

Example 2.3: Configure the code 39 bar code length to be any length supported

Scan the configuration code 39 minimum length limit, then scan the appendix data and edit the 0 in the bar code, save,

Scan the configuration code 39 maximum length limit, then scan the appendix data and edit the bar code 0, save, that is, complete the configuration.

Example of usb keyboard sending speed configuration

If the customer pc performance is weak and prone to transmission errors, you need to customize the usb keyboard send speed to a slower speed, such as 50ms:

Scan the configuration code to customize the sending speed, then scan the appendix data and edit the 5,0, save, that is, the configuration in the bar code.

Warning tone

When the data transmission is abnormal, the scanning gun emits four consecutive beep sounds. If this occurs, check that the connection line is normal.

Reading skill

For good reading, the aiming beam from the scanning gun should be centered in the bar code, but can be aimed in any direction for reading.

Hold the barcode scanner in front of the bar code and press the button to align the sight beam with the bar code center. The closer the scanning gun is to the bar code, the smaller the aiming beam is, the more the scanning gun is away from the bar code, the larger the aiming beam.

If the bar code is small, the scanning gun shall be close to the bar code; If the barcode is larger, the scanning gun should be a little farther away from the bar code, so that it is easier to read the barcode correctly.

If the bar code is high in reflectivity (for example, the film surface), you may need to tilt the scanner at an angle in order to successfully scan the bar code.



Safe

When the scanner is used, the light is strong. Do not look directly into the eyes or aim at the eyes so as not to cause discomfort or injury.