

ST10-39SR-U USER MANUAL

V1.6.01

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Connecting the scanner

Connect the appropriate interface cable to the scanner first, then to the computer

Turn on/ Turn off configuration barcode

When the configuration function is turned on, all of configuration barcodes can be used.

When the configuration function is turned off, other configuration barcodes cannot be used. You need to turn on configuration function again



Turn on configuration function(Default)



Turn off configuration function

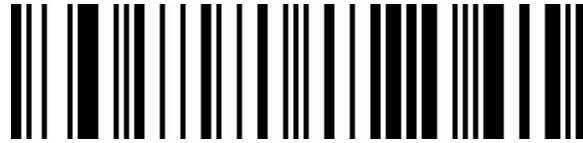
Version



Version

Setting Product Defaults

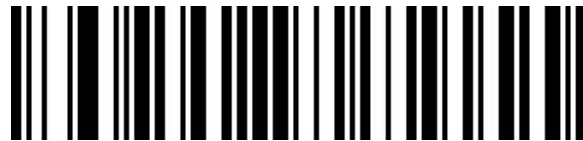
Scan the barcode below to restore factory defaults



Restore facotry defaults

Setting Custom Defaults

Scan the barcode below to save the current parameters as a user configuration.



Save Custom Defaults

Scan the barcode below to restore saved user configuration.



Restore Custom Defaults

Interface

The scanner supports USB HID,USB to serial port, RS232 mode.

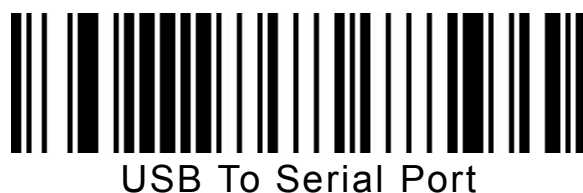
Scan the following barcode to configure the scanner for USB PC/
USB MAC keyboard mode.



Scan the following barcode to configure the scanner for serial
port mode.



Scan the barcode below to configure the scanner from USB to
serial port mode. (Please request the driver from seller)



Keyboard configuration

Control Character Escape



Control Character Escape On



Control Character Escape Off *

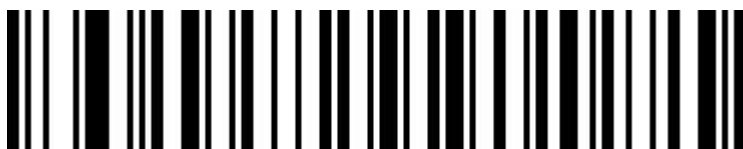
Carriage Return / Line Feed (USB keyboard)



0A (LF) Only



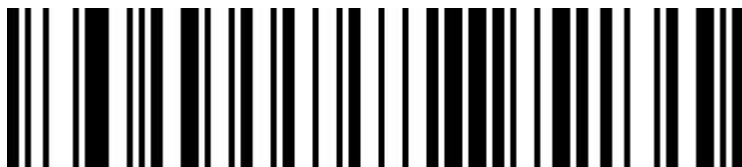
0D (CR) * Only



0A(LF) & 0D(CR)

Speed of USB keyboard transmission

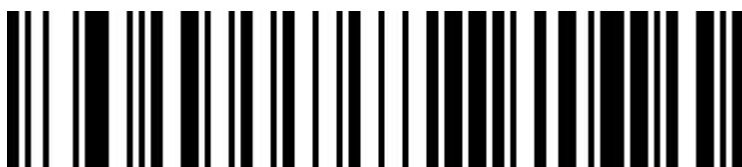
It is used to configure the speed when transferring data in USB keyboard mode. If the PC with low performance, it is better to choose “low speed” to ensure accurate transmission.



Low*



Medium



High

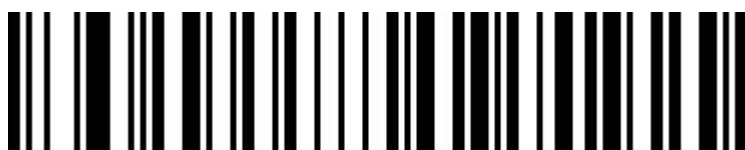


Custom (2ms~50ms)

USB keyboard case output control



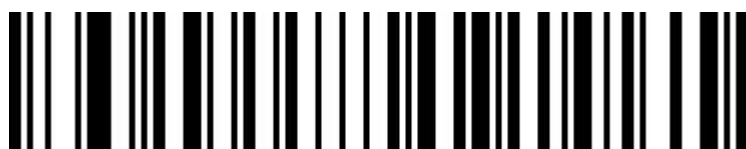
Normal*



Mixed Case Reversal



All Caps



All Lower-case

Keyboard Layouts



English (United States) *



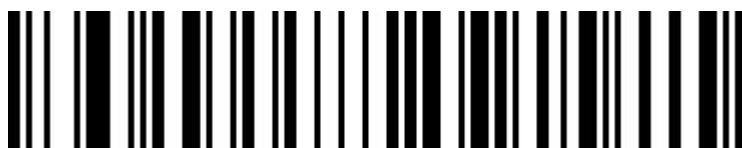
French (France)



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)



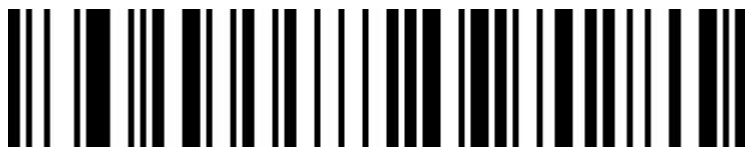
Turkish Q



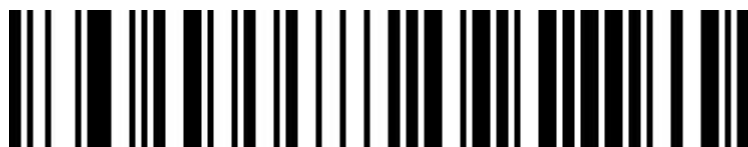
Turkish F



Greek (MS)



French (Belgium)



English (UK)

Virtual keyboard

Mode 1: The characters between 0x20 ~ 0xFF under the current keyboard layout are not supported using virtual keyboard output . The characters between 0x00 ~ 0x1F are output according to the definition of control characters (see appendix)

Mode 2: All characters between 0x20 ~ 0xFF are output by virtual keyboard, and characters between 0x00 and 0x1F are output according to the definition of control characters (see appendix)

Mode 3: All characters used between 0x00 ~ 0xFF are output by virtual keyboard



Virtual keyboard turn off (default)



Virtual keyboard turn on(MODE 1)

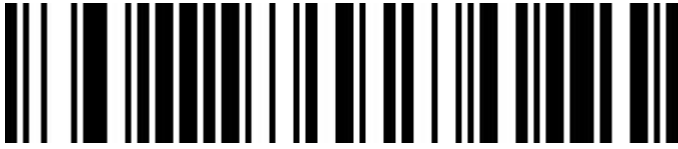


Virtual keyboard turn on(MODE 2)



Virtual keyboard turn on(MODE 3)

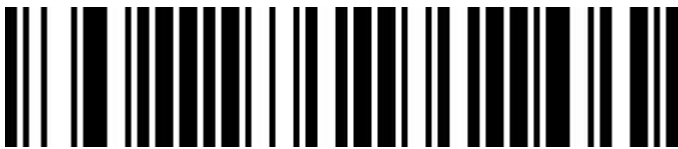
Host operating system selection in virtual keyboard mode



WINDOWS (Default)



MAC OS



LINUX

Output Encoding Format

In order to output data correctly according to the specified encoding format, It need to specify the output encoding format,such as simplified chinese output in Notepad / excel, configuring the format into GBK . In word,configuring the format into UNICODE.

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



English/Latin-1*(Native keyboard output)



CHINESE GBK ENCODE (notepad/excel)



UNICODE ENCODE (Word)

Invoice Function



Invoice Function OFF *



Invoice Function ON *

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

Invoice type option



Special invoice*



General invoice

Serial port configuration

RS232 Baud Rate



Baud Rate 4800



Baud Rate 9600*



Baud Rate 19200



Baud Rate 38400



Baud Rate 57600



Baud Rate 115200

Serial data bit, stop bit, parity bit configuration



7 Data, 1 Stop, Parity None





8 Data, 1 Stop, Parity None*



8 Data, 1 Stop, Parity Even



8 Data, 1 Stop, Parity Odd



8 Data, 2 Stop, Parity None

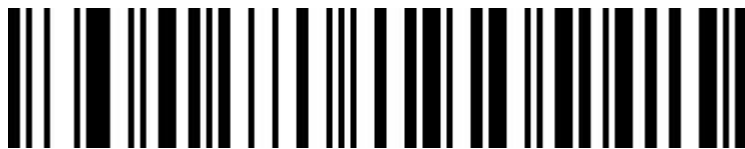


8 Data, 2 Stop, Parity Even



8 Data, 2 Stop, Parity Odd

Scan Mode



Normal mode(Default)



1D quick scan mode

Repeated Barcode Detection

It is used to configure the interval time for decoding the identical barcode. If the setup time is not exceeded, the identical barcode will only be decoding one time.



300ms



500ms*



750ms



1S



2S



5s



10s

Lamp configuration

LED Indicator light



Decoding successful LED closing



*Decoding successful LED Opening

Active state light control



* Illumination Closing



Illumination Low Light

Buzzer Configuration

Volume

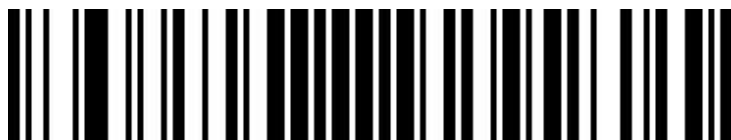


Low volume

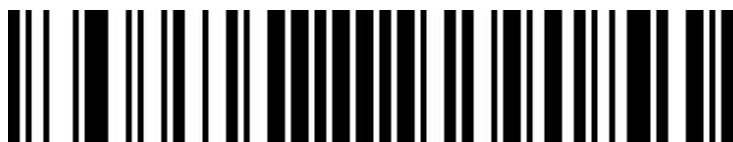


* High volume

Barcode Scanner Start-Up Tone Setting



Start-Up Tone Close



* Start-Up Tone Open

Successfully Decoded Tone Settings



Successfully Decoded Tone Close

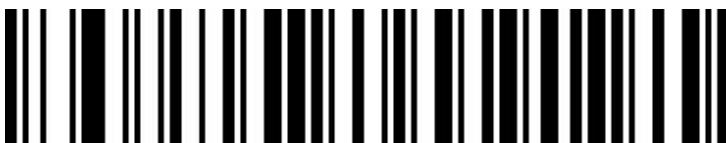


* Successfully Decoded Tone Open

Successfully Decoded Tone Frequency Setting(Tone)



*Successful decode Tone Frequency 1



Successful decode Tone Frequency 2



Successful decode Tone Frequency 3

Duration of successful decoding



Decoding successful prompt tone 1 (default)



Decoding successful prompt tone 2

Error Warning Tone Frequency Setting (Tone)

In the event of a data transmission failure, a continuous four-error warning tone will appear, and a single error warning tone will occur when scanning an unrecognized configuration code.



*Error warning tone frequency low



Medium



High

Prefix/Suffix Mode Setting

Prefix



* Disable Prefix



Prefix Setting To "STX"

Suffix



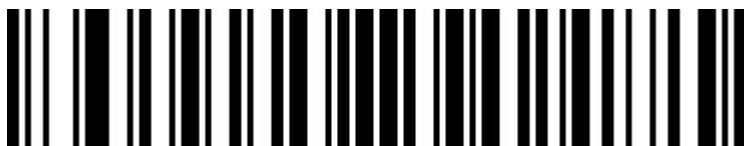
* Disable Suffix



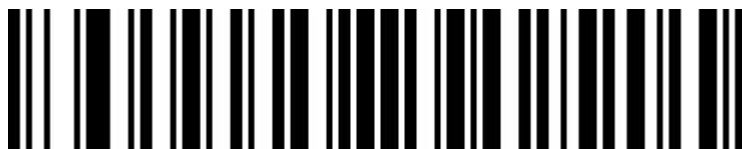
"Enter(0x0D)"As Suffix



"Line Feed(0x0A)"As Suffix



“Enter and Line Feed (0x0D 0x0)” As Suffix



“Tab(0x09)” As Suffix



“ETX” As Suffix

Custom prefix

Output option



Turn on custom prefix output



Turn off custom prefix output(default)

Edit



Clear all custom prefix



Custom prefix

(After scanning, please set according to the barcode type ID table and data in the appendix and edit the barcode)

Custom suffix

Output option



Turn on custom suffix output

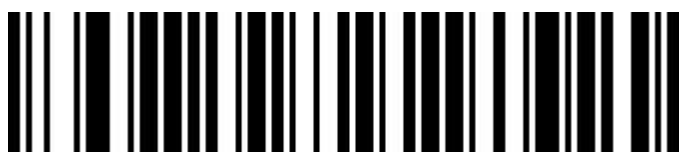


Turn off custom suffix output(default)

Edit



Clear all custom suffix



Custom suffix

(After scanning, please set according to the barcode type ID table and data in the appendix and edit the barcode)

Code ID

Output option



* Turn Off CODE ID



Open ID in front of the code



Open the ID behind the code

Edit



Custom CODE ID

(After scanning, please set according to the barcode type ID table and data in the appendix and edit the barcode)



Clear all custom CODE ID

AIM ID



Turn off barcode AIM ID (Default)



Turn on the AIM ID before barcode



Turn on the AIM ID after barcode

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 Start/End field. Please configure the length and transmission configuration of the Start/End field according to actual needs.

Note: The non-barcode content such as custom prefixes, start characters, end characters, CODE ID, AIM ID, etc. is not affected by the data editing function.

Transmission configuration



Transfer the complete Data field (default)



Only transfer the Start field



Only transfer the Center field



Only transfer the End field

Field length configuration



Set Start field length



Set End field length

Note: The field length configuration is in bytes, using decimal data for configuration.

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

Performance demonstration barcode (temporary configuration, restart invalid)



Turn on performance demonstration mode

Set Positive/Negative Barcodes

(For 1D codes/DataMatrix/Aztec)



Positive bar codes



Negative bar codes



Positive and negative bar codes

Barcode Type Setting

Turn On / Turn Off All Barcode

Turn on all bar code types may result in slower decoding speed. It is recommended to open the required bar code type according to the usage scenario. *The default is to turn on all bar codes.*

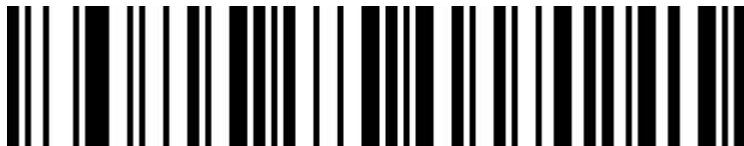


Turn On All Barcode Types



Turn Off All Barcode Types

Turn on/off all 1D code

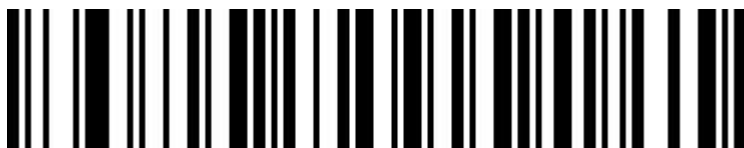


Turn on all 1D code



Turn off all 1D code

Turn on/off all 2D code



Turn on all 2D code



Turn off all 2D code

Codabar

Turn on and Turn off Barcode



Turn On Codabar



Turn Off Codabar

Codabar Prefix / Suffix



* Not transmit Codabar Prefix/Suffix

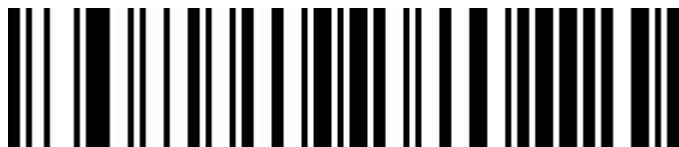


Transmit Codabar Prefix / Suffix

Codabar length limit setting



Codabar min length limit (0~50 bytes)



Codabar max length limit (0~50 bytes)

Code 39

Turn on and Turn off Barcode



Turn On Code 39



Turn Off Code 39

Code 39 Check Bit



* Code 39 Turn Off Check Bit



Code 39 Turn On Check Bit and no send



Code 39 Turn On Check Bit and Send

Code 39 Full ASCII

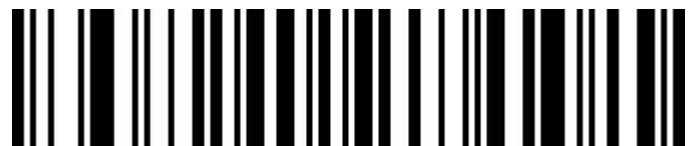


Turn on Full ASCII



Turn off Full ASCII(default)

Code 39 length limit setting



Code 39 min length limit (0~50 bytes)



Code 39 max length limit (0~50 bytes)

Code 32 (Code 39 Should Turn On)

Turn on and Turn off Barcode



Turn On Code 32



Turn Off Code 32

Interleaved 2 of 5 (ITF25)

Turn on and Turn off Barcode



Turn On ITF25



Turn Off ITF25

Interleaved 2 of 5 (ITF25) Check Bit



* ITF25 Turn Off Check Bit



ITF25 Turn On Check Bit and does not send



ITF25 Turn On Check Bit and Send

Interleaved 2 of 5 (ITF25) Length Selection



ITF25 Any Length (4-24 Bytes)

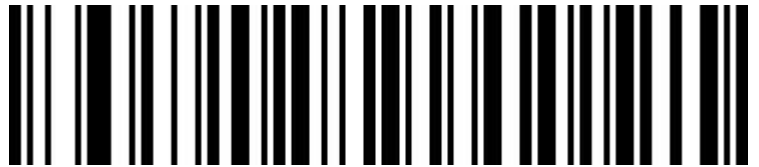


ITF25 6 Bytes



ITF25 8 Bytes





ITF25 22 Bytes



ITF25 24 Bytes

Interleaved 2 of 5 length limit setting



Interleaved 2 of 5min length limit (0~50 bytes)



Interleaved 2 of 5max length limit (0~50 bytes)

Industrial 2 of 5



Turn On Industrial 2 of 5



Industrial 2 of 5 Turn Off

Industrial 2 of 5 length limit setting



Industrial 2 of 5min length limit (0~50 bytes)



Industrial 2 of 5max length limit (0~50 bytes)

Matrix 2 of 5 (4-24 Bytes)



Matrix 2 of 5 Turn On



Turn Off Matrix 2 of 5

Matrix 2 of 5 length limit setting



Matrix 2 of 5min length limit (0~50 bytes)



Matrix 2 of 5max length limit (0~50 bytes)

Code 93



Turn On Code 93

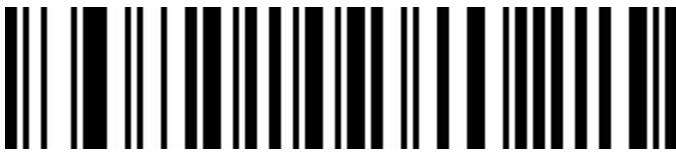


Turn Off Code 93

Code 93 length limit setting



Code 93min length limit (0~50 bytes)



Code 93max length limit (0~50 bytes)

Code 11

Turn on/off barcode



Turn on Code 11



Turn off Code 11(default)

Code 11 Check digit output



Turn on Code 11 check digit output



Turn off Code 11 check digit output (Default)

Code 11 verify selection



Turn off Code 11 verify (Default)



Code 11 1 byte verify



Code 11 2 bytes verify

Code 11 length limit setting



Code 11 min length limit (0~50 bytes)



Code 11 max length limit (0~50 bytes)

Code 128



*Turn on Code 128



Turn off Code 128

GS1-128



*Turn on GS1-128

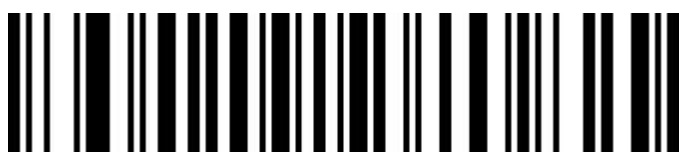


Turn off GS1-128

Code 128 length limit setting



Code 128 min length limit (0~50 bytes)



Code 128 max length limit (0~50 bytes)

UPC-A

Turn on/Turn off Barcode



*Turn on UPC-A



Turn off UPC-A

UPC-A Check bit



Transmit UPC-A Check bit (default)



Not Transmit UPC-A check bit

UPC-A convert to EAN-13



UPC-A convert to EAN-13 On



UPC-A convert to EAN-13 Off (default)

UPC-E

Open/Close Barcode



Turn on UPC-E



Turn off UPC-E

UPC-E Check digital



Transmit UPC-E Check bit(default)



Not Transmit UPC-E check bit

UPC-E expand to UPC-A



UPC-E expand to UPC-A On



UPC-E expanded UPC-A Off (default)

EAN/JAN-8



Turn on EAN/JAN-8



Turn off EAN/JAN-8

EAN/JAN-13



*Turn on EAN/JAN-13



Turn off EAN/JAN-13

UPC/EAN/JAN Additional code



Ignore UPC/EAN/JAN Additional code (default)



Decode UPC/EAN/JAN Additional code



Customized UPC/EAN/JAN Additional code

EAN13 convert to ISBN



Turn on EAN13 convert to ISBN code



Turn off EAN13convert to ISBN code (default)

EAN13 convert to ISSN

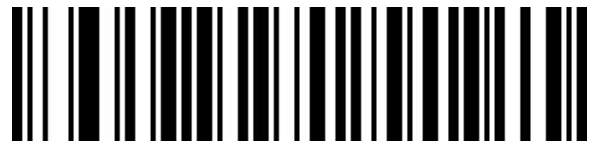


Turn on EAN13convert to ISSN code

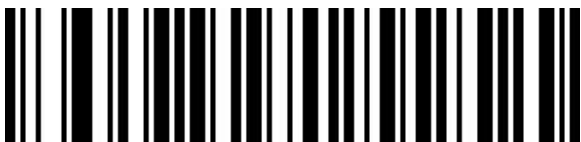


Close EAN13 convert to ISSN code (default)

GS1 DataBar (RSS14)



Turn on GS1 DataBar



Turn off GS1 DataBar

GS1 DataBar Limited



Turn on GS1 DataBar Limited



* Turn off GS1 DataBar Limited

GS1 DataBar Expanded



Turn on GS1 DataBar Expanded



*Turn off GS1 DataBar Expanded

Turn on/off CODE MSI



Turn on code MSI



Turn off code MSI

MSI CHECK DIGIT OUTPUT



Turn on Code MSI check digit output



Turn off code MSI check digit output

MSI check digit selection



Code MSI 1 byte check digit



Code MSI 2 bytes check digit

Code MSI 2 bytes check digit selection



MOD10/MOD10

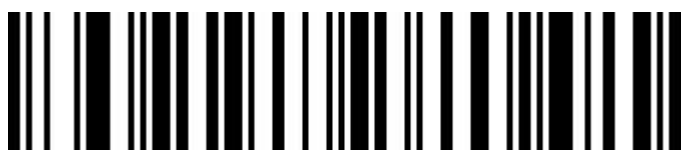


MOD10/MOD11

Code MSI length limit setting



Code MSI min length



Code MSI max length

PDF417



Turn on PDF417



Turn off PDF417

Micro PDF417



Turn on Micro PDF417



Turn off Micro PDF417

QR Code

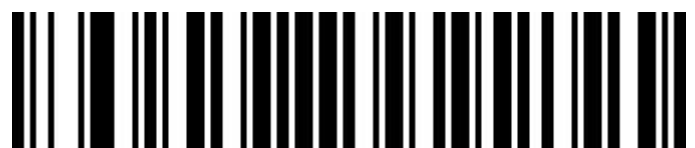


*Turn on QR



Turn off QR

QR Code URL Link



Turn off QR Code URL Link



Turn on QR Code URL Link(Default)

Micro QR



Micro QR opened



Micro QR closed

Data Matrix



Turn on Data Matrix



Turn off Data Matrix

Aztec Code



Aztec opened



Aztec closed

Appendix

Data and edit barcode



0



1



2



3



4



5



6



7



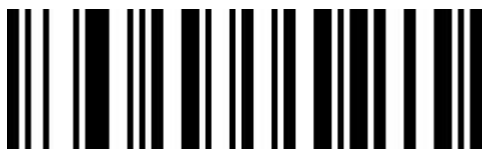
8



9



A



B



C



D



E



F



Cancel current setting



Cancel the string of data read previously



Cancel the previous reading



Save

Barcode type ID Table

Barcode type	HEX	CODE ID(默认)
All barcode	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
MSI	6D	m
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

Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character	Decimal	Hexadecimal	Character
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 (USB Keyboard mode)

Decimal	Hexadecimal	Corresponding key value (Control character escape closed)	
0	00	Keep	Ctrl+2
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 (Affected by Tab and Enter key processing configuration)	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter (Affected by Tab and Enter key processing configuration)	Ctrl+M
14	0E	Scroll Lock	Ctrl+N
15	0F	Pause/Break	Ctrl+O
16	10	F11	Ctrl+P
17	11	Arrow Up ↑	Ctrl+Q
18	12	Arrow Down ↓	Ctrl+R
19	13	Arrow Left ←	Ctrl+S
20	14	Arrow Right →	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+6
31	1F	F10	Ctrl+-

Control Character (Serial port and USB Virtual Serial port)

Decimal	Hexadecimal	Corresponding character
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

Partial functional configuration instructions and examples

Custom prefix/suffix example

Set the prefix/suffix by scanning the code, each prefix or suffix maximum is 10 characters.(To ensure that the custom prefix/suffix can be output, please scan the barcode “ Turn on the custom prefix/suffix output”)

Example 1.1 Add a custom prefix XYZ to all types of barcodes

Check the appendix barcode type ID list, all barcodes' HEX values are 99. Check the appendix character ASCII list, XYZ's HEX value is 58,59,5A. Scan the barcode “**Custom prefix**”, scanner will make two sounds of “ **Beep..beep**”, next scan data and editing bar code “ **9, 9, 5, 9, 5, A**” in the appendix, then scan barcode “**save**”. It completes the setting process.

If you need to modify the scanned barcode before saving it, scan barcode “**Cancel the previous reading**” or “ **Cancel the string of data read previously**”, it will start to reset again. If you need to abandon this configuration in the middle, scan barcode “ **Cancel current settings**” .

Example 1.2: Add a custom prefix R to QR codes

Check the appendix barcode type ID list, QR code's HEX values is 51. Check the appendix character ASCII list, R's HEX value is 52. Scan the barcode “**Custom prefix**”, next scan data and editing bar code “ **5 ,1 ,5 ,2**” in the appendix, then scan barcode“**save**”. It completes the setting process.

Bar code length limit setting example

When setting the minimum length limit of barcode, you must ensure that the minimum length set is not longer than the current maximum length, otherwise scanner will prompt with an error. Similarly, when setting the maximum length limit of barcode, it is necessary to ensure that the maximum length set is not less than the current minimum length.

Example 2.1: Set the barcode of Code 128 length to 4-12 bits

Scan the barcode “ **Code 128 Minimum length limit**”, next scan the barcode “**4**” in the data and editing of appendix, **then** scan the barcode“ **Save**”.

Scan the barcode “ **Code 128 Maximum length limit**”, next scan the barcode “**1,2**” in the data and editing of appendix, then scan the barcode“ **Save**”.

Example 2.2: Set the barcode Interleaved 2 of 5 length to 14 bits

Setting the length of Interleaved 2 of 5 to 14 bits can be set directly by scanning quick setting barcode “**ITF25 14 bits length**”, or by setting Bar code maximum minimum length.

Scan the barcode “**Interleaved 2 of 5 Minimum length limit**”, then scan the barcode “**1,4**” in the data and editing

of appendix, then scan the barcode“ **Save**”.

Scan the barcode “**Interleaved 2 of 5 Maximum length limit**”, then scan the barcode “**1,4**” in the data and editing of appendix, then scan the barcode“ **Save**”.

Example 2.2: Set the Code 39 barcode length to any length supported

Scan the barcode “**Code 39 Minimum length limit**”, then scan the barcode “**0**” in the data and editing of appendix, then scan the barcode“ **Save**”.

Scan the barcode “**Code 39 Maximum length limit**”, next scan the barcode “**0**” in the data and editing of appendix, then scan the barcode“ **Save**”.

USB keyboard data transfer speed setting example

If the terminal computer’s performance is not good enough, the situation of transmission errors will happen from time to time, you needs to customize the USB keyboard sending speed to a slower speed.

For example, you want it to be 50ms, then scan the barcode “**Custom sending speed**”, next scan the barcode “**5,0**” in the data and editing of appendix, then scan the barcode“ **Save**”.

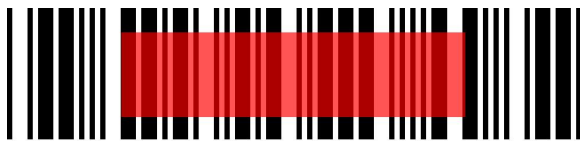
Warning Tone

When the data transfer abnormal, the scanner will have four continuous warning beep, if this happen, please check the cable connection is normal.

Reading skill

To get the better reading result, The aiming beam from the scanner should be aligned in the middle of the bar code, but can be aimed in any direction for reading.

If barcode is closer to the scanner, the aim beam will be smaller, if the barcode is farther to the scanner, the aiming beam bigger. If the barcode is smaller, it should closer to the scanner; If the barcode is bigger, it should farther to the scanner, which will easier and more correct for reading.



Safety

The lighting is strong when the scanner is in use, do not look directly at or aim at the eyes to avoid discomfort or injury.

