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**ScanAvenger**  
**Wireless / Bluetooth / USB**  
**1D/2D Barcode Scanner**

## **Disclaimer**

Please read through the manual carefully before using the product and operate it according to the manual. It is advised to keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device as this will void the warranty.

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The user manual has 2 parts. This first part focuses on configuration codes for the system of the scanner and the second party on the wireless engine. The user can set the function of the barcode reader by scanning one or more setting barcodes.

## Interface

The scanning device supports USB keyboard, USB serial port (USB-COM), and serial port interface mode.

Scan the barcode below can be configured as USB keyboard.



USB keyboard (Factory default)

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



Serial mode

Scan the barcode below to configure the scanner to USB serial mode. (Requires driver installation)



USB serial ( USB-COM)

## USB keyboard

### Control the character escape



Enable control the character escape



Disable control the character escape( default)

### Carriage return and line feed processing in the barcode content (USB keyboard)



0A (Line Feed LF) only



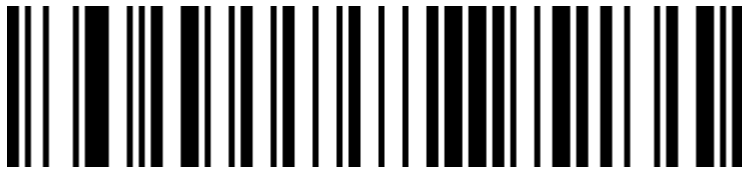
0D (Carriage Return CR) (default)



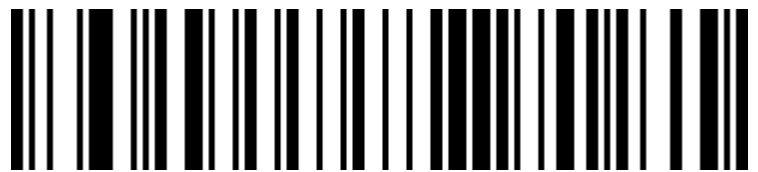
Both 0A(Line Feed LR) and 0D(Carriage Return CR)

## USB keyboard transmission speed

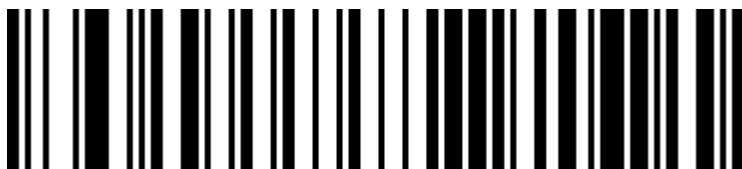
Used to configure the speed when sending data by USB keyboard mode. If the PC that you are using has low performance, we recommend to choose a low speed to ensure transmission accuracy.



Transmission speed slow ( default)



Transmission speed middle



Transmission speed high



Customize speed (2ms~50ms)

## USB keyboard uppercase and lowercase output control



Formal output ( default)



Uppercase and lowercase transfer



All uppercase



All lowercase

## Keyboard Layouts



English (United States) (default)



French (France)



Italian (Italy)

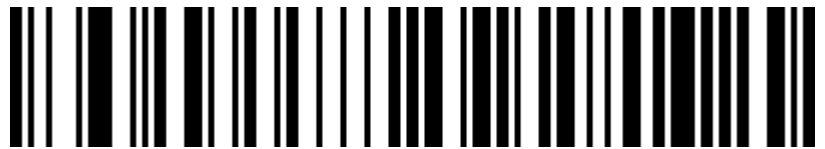


Italian 142 (Italy)

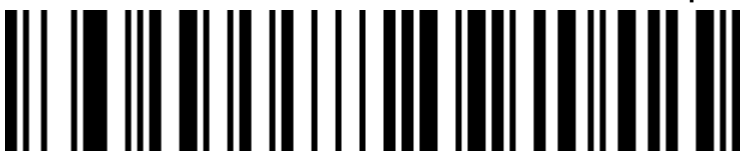




Spanish (Spain)



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)



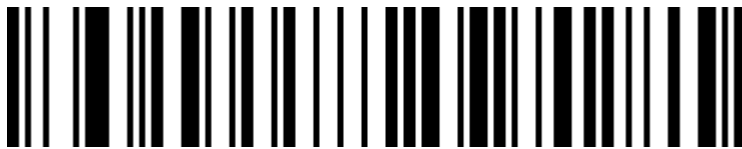
Turkish Q



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 (Check 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 (Check appendix).

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



Virtual keyboard off (default)



Enable virtual keyboard (Mode 1)



Enable virtual keyboard (Mode 2)



Enable virtual keyboard (Mode 3)

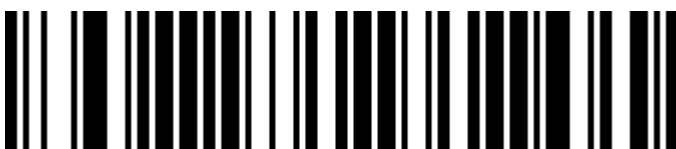
## The system selection in virtual keyboard mode



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.



English/Latin-1 encoding (default)



GBK encoding (Notepad/excel)



UNICODE encoding (Word)

## Invoice function

Enable and disable invoice function



Disable invoice (default)



Enable invoice

To ensure the correct output of the invoice content, when opening 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 Code ID, custom pre/suffix, and start character.

## Invoice type



Special invoice (default)



Formal invoice

## Serial configuration

### Baud rating



Baud 4800



Baud 9600 (default)



Baud 19200



Baud 38400



Baud 57600



Baud 115200

## Serial data bit, stop bit, check bit configuration



7-bit data, 1 bit stop, no parity



7-bit data, 1 bit stop, even parity



7-bit data, 1 bit stop, odd parity



7-bit data, 2-bit stop, no parity



7-bit data, 2-bit stop, even parity



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



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



8-bit data, 1 bit stop, even parity



8-bit data, 1 bit stop, odd parity



8-bit data, 2-bit stop, no parity



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



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

## GS Control character replacement



No replace (default)

To output the character "Ç", you must firstly scan "Enable virtual keyboard" (mode 1) or (mode 2) or (mode 3)



Replace to Ç



Replace to |



Replace to ^]



Replace to ]



Replace to <GS>

## Scan mode

This product has auto sense mode. Scan the barcode below to configure.

### Disable auto sense mode

When auto sense mode is disabled, you should trigger scanner by pressing button. This mode is factory default.



Disable auto sense (default)

### Enable auto sense mode

When the auto sense mode is enabled, the scanner can automatically detect the barcode in front of the lens and scan barcode.



Enable auto sense

## Same barcode decoding time

It is used to configure the interval time of decoding the same barcode. If the setting time is not exceeded, the same barcode will only be scanned once time.



Same barcode detection interval 500ms



Same barcode detection interval 750ms (default)



Same barcode detection interval 1s



Same barcode detection interval 2s

## Center mode

When the center mode is enabled, the scanner will only recognize the barcode which is located in the center of the screen that the scanner lens is facing. By default, this configuration is disabled.



Disable center mode (default)



Enable center mode

## Light configuration

LED indication



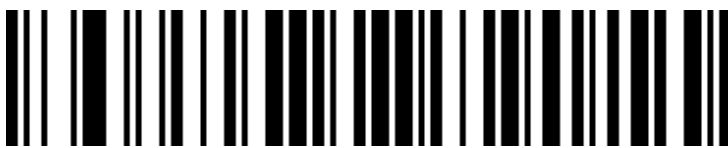
Disable decoding successfully LED indication light



Enable decoding successfully LED indication light ( default)

## Buzzer setting

Sound



Sound low



Sound high (default)



### Setup the scanner indication sound



Disable setup the scanner indication sound



Enable setup the scanner indication sound (default)

### Successfully decoding indication sound



Disable decoding successfully indication sound



Enable successfully decoding sound (default)

### Successfully decoding indication sound frequency (Tone)



Successfully decoding indication sound frequency 1 ( Factory default)

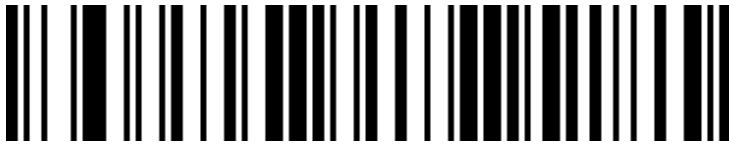


Successfully decoding indication sound frequency 2 (2.7K)



Successfully decoding indication sound frequency 3

### Successfully decoding indication sound time



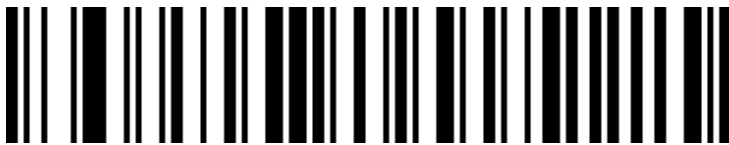
Successfully decoding indication sound time long (default)



Successfully decoding indication sound time short

### Error warning indication sound frequency (tone)

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



Error warning indication sound frequency low ( default)



Error warning indication sound frequency low ( default)



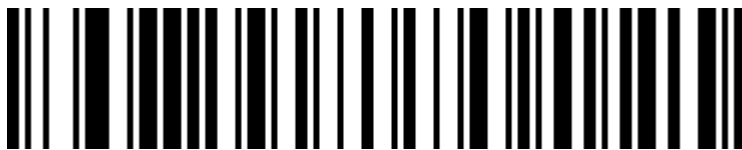
Error warning indication sound frequency high

## Prefix and suffix

### Start character



No use start character (default)

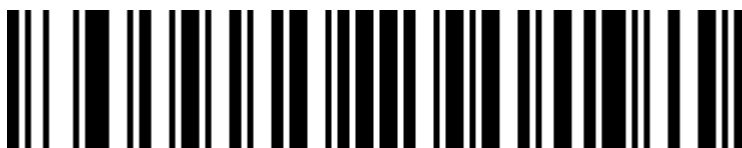


Start character set to STX

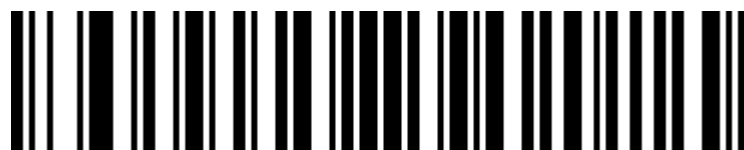
### End character



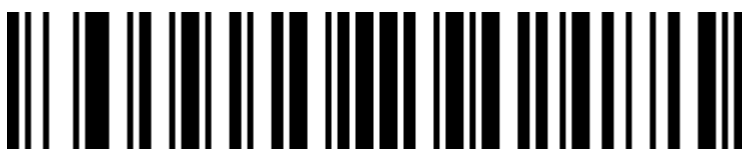
No end character



End character set to " carriage return"



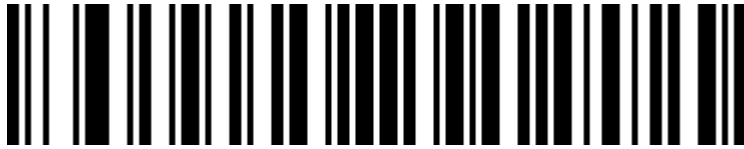
End character set to "Line feed"



End character set to "Line feed" and " carriage return" (default)



End character set to "Tab"



End character set to "ETX"

## Customized prefix

### Output



Enable Customized prefix output



Disable customized prefix output (Factory default)

### Edit



Clear all customized prefix



Customized prefix

(Please set according to the barcode type ID table and data , edit barcode in the appendix after scanning.)

Customized suffix

Output



Enable customized suffix output



Disable customized suffix output ( default)

Edit



Clear all the suffix



Customized suffix

(Please set according to the barcode type ID table and data , edit barcode in the appendix after scanning.)

## Code ID

### Output



Disable CODE ID (default)



Enable CODE ID before barcode



Enable CODE ID after barcode

### Edit



Customized CODE ID

(Please set according to the barcode type ID table and data , edit barcode in the appendix after scanning.)



Clear all customized CODE ID

## AIM ID



Disable barcode AIM ID ( default)



Enable AIM ID before barcode



Enable AIM ID before barcode

## Barcode prefix suffix order selection

### Prefix



Start character + CODE ID+AIM ID + Customized prefix (default)



Start character + Customized prefix + CODE ID+AIM ID

### Suffix



Customized suffix + CODE ID+AIM ID + End character (default)



CODE ID+AIM ID + Customized suffix + End character



## Character edit

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

Note: The contents of non-barcode such as customized suffixes, start characters, end characters, CODE ID, AIM ID are not affected by the data editing function.

### Transmission configuration



Transmit complete characters (default)



Only transmit first part



Only transmit Center part



Only transmit End part

## character length configuration



Set first part length



Set End part length

Note: The field length configuration is in bytes and is configured using decimal data.

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

## Inversed barcode option

(Mainly for 1D barcodes /Data Matrix/Aztec)



Only normal barcode



Only inverse barcode



## Barcode type

### Enable / Disable all the barcodes

Enable all barcode types may result in slower decoding speed. We suggest to open the required barcode type according to the requirement. All barcodes are on by default.

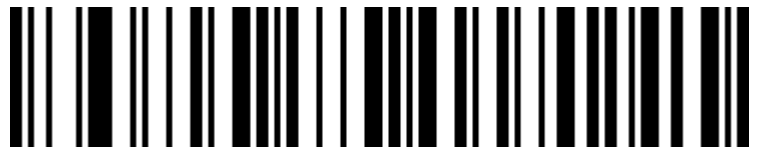


Enable all the barcode type

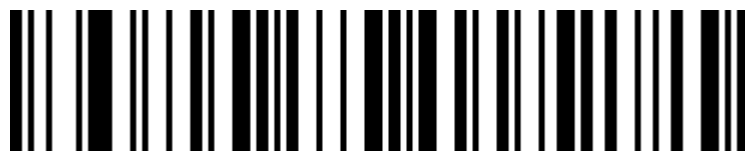


Disable all the barcode type

### Enable / Disable all the 1D barcodes



Enable all the 1D barcode type



Disable all the 1D barcode type

### Enable / Disable all the 2D barcodes



Enable all the 2D barcode type



Disable all the 2D barcode type

## Codabar

### Enable/Disable barcode



Enable Codabar



Disable Codabar

### Codabar Start / End character



Don't send Codabar start/end character ( default)



Send Codabar start/end character

### Codabar length limited setting



Codabar length limited setting



Codabar maximum length (0~50 bits)

## Code 39

### Enable/Disable barcode



Enable Code 39



Disable Code 39

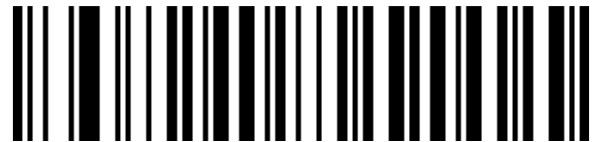
### Code 39 parity



Disable Code 39 parity (default)



Enable Code 39 parity but don't send parity



Enable Code 39 parity and send

parity

Code 39 Full ASCII

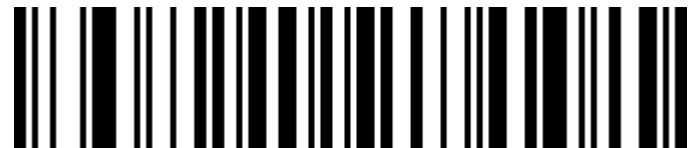


Enable Full ASCII



Disable Full ASCII (Factory default)

**Code 39 length limited setting**



Code 39 minimum length (0~50 bits)



Code 39 maximum length (0~50 bits)

Code 32 ( Need enable code39)

**Enable/ Disable barcode**



Enable Code 32



Disable Code 32

## Interleaved 2 of 5 (ITF25)

### Enable/ Disable barcode



Disable ITF25



Enable ITF25

### Interleaved 2 of 5 (ITF25) parity



Disable ITF25



Enable ITF25

### Interleaved 2 of 5 (ITF25) parity



Enable ITF25 parity but don't send parity



Disable ITF25 parity (default)





Enable ITF25 parity and send parity

### Interleaved 2 of 5 (ITF25) length option



ITF25 random length (6-50 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 limited setting**



Interleaved 2 of 5 minimum length (0~50 bits)



Interleaved 2 of 5 maximum length (0~50 bits)

## Industrial 2 of 5

### Enable/Disable barcode



Enable Industrial 2 of 5



Disable Industrial 2 of 5

### Industrial 2 of 5 length limited setting



Industrial 2 of 5 minimum length (0~50 bits)



Industrial 2 of 5 maximum length (0~50 bits)

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

### Enable/Disable barcode



Enable Matrix 2 of 5



Disable Matrix 2 of 5

Matrix 2 of 5 length limited setting



Matrix 2 of 5 minimum length (0~50 bits)



Matrix 2 of 5 maximum length (0~50 bits)

Code 93

**Enable/Disable barcode**



Enable Code 93



Disable Code 93

**Code 93 length limited setting**



## Code 93 length limited setting



Code 93 maximum length (0~50 bits)

### Code 11

#### Enable/Disable barcode



Enable Code 11



Disable Code 11 ( default)

#### Code 11 parity output



Enable Code 11 parity output



Disable Code 11 parity output ( default)

## Code 11 parity option



Disable Code 11 parity (default)



Code 11 1-bit parity

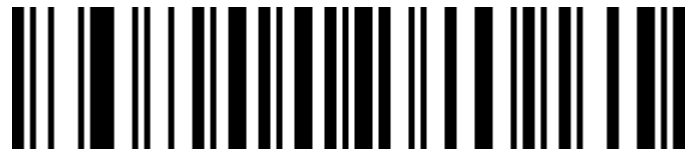


Code 11 2 bits parity

## Code 11 length limited setting



Code 11 minimum length (0~50 bits)



Code 11 maximum length (0~50 bits)

## Code 128



Enable Code 128



## Disable Code 128

### ISBT-128



Disable ISBT 128



Enable ISBT 128

### GS1-128



Enable GS1-128



Disable GS1-128

### 128 code length limited setting



128 code minimum length (0~50 bits)



128 code maximum length (0~50 bits)



## UPC-A

### Enable/Disable barcode



Enable UPC-A



Disable UPC-A

### UPC-A parity



Send UPC-A parity (default)



Don't send UPC-A parity

## UPC-A transfer EAN-13



Enable UPC-A transfer EAN-13



Disable UPC-A transfer EAN-13 (default)

## UPC-E

### Enable/Disable barcode



Enable UPC-E



Disable UPC-E

### UPC-E parity



Send UPC-E parity (default)



Don't send UPC-E parity

### UPC-E expand UPC-A



UPC-E expand UPC-A



Disable UPC-E expand UPC-A (Factory default)

### EAN/JAN-8



Enable EAN/JAN-8



Disable EAN/JAN-8

EAN/JAN-13



Enable EAN/JAN-13



Disable EAN/JAN-13

UPC/EAN/JAN Additional code



Ignore UPC/EAN/JAN additional code (default )



Decode UPC/EAN/JAN additional code



Adaptive UPC/EAN/JAN additional code

EAN13 transfer ISBN



## Enable EAN13 transfer ISBN



Disable EAN13 transfer ISBN code (Factory default)

## EAN13 transfer ISSN



Enable EAN13 transfer ISSN code



Disable EAN13 transfer ISSN code (Factory default)

## GS1 DataBar (RSS14)



Enable GS1 DataBar



Disable GS1 DataBar

## GS1 DataBar Limited



Enable GS1 DataBar Limited

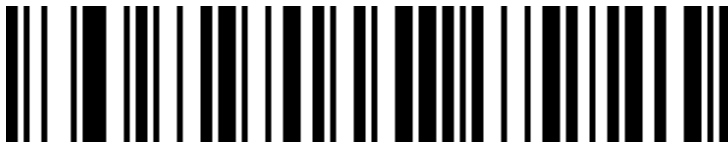


Disable GS1 DataBar Limited

GS1 DataBar Expanded



Enable GS1 DataBar Expanded



Disable GS1 DataBar Expanded

PDF417



Enable PDF417



Disable PDF417

Micro PDF417



Enable Micro PDF417



Disable Micro PDF417

QR Code



Enable QR



Disable QR

Micro QR



Enable Micro QR



Disable Micro QR

Data Matrix



Enable Data Matrix



Disable Data Matrix

Aztec Code



Enable Aztec



Disable Aztec

# Appendix

## Data and Edit Barcode



0



1



2



3



4



5



6



7



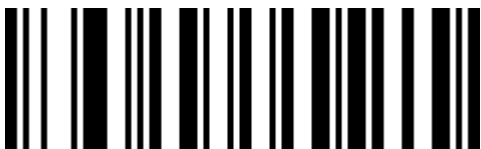
8



9



A



B



C



D





E



F



Cancel current setting



Cancel a previously read string of data



Cancel a previously read string of data



Save

## Barcode type ID form

Barcode type	HEX	CODE ID( Factory default)
	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

## AIM ID form

Barcode type	AIM ID	instructions
Codabar	]Fm	m: 0~1
Code128	]C0	m: 0, 1, 2, 4
Code32	]A0	
Code93	]G0	
Code39	]Am	m: 0, 1, 3, 4, 5, 7
Code11	]Hm	m: 0, 1, 3, 8, 9
EAN-13 / EAN-8	]Em	m: 0, 1, 3, 4
GS1 DataBar	]e0	
GS1-128 (EAN-128)	]C1	
Interleaved 2 of 5	]Im	m: 0, 1, 3
Matrix 2 of 5	]X0	
Industry 2 of 5	]S0	
UPC-A/ UPC-E	]Em	m: 0, 3
ISBN	]X0	
ISSN	]X0	
Aztec Code	]z0	
DataMatrix	]dm	m: 0~6
PDF417 / Micro PDF417	]Lm	m: 0~5
QR Code / Micro QR Code	]Qm	m: 0~6

## Visible character ASCII form

Decimal system	Hex	Character	Decimal system	Hex	Character	Decimal system	Hex	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	s
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)

Decimal system	Hex	Corresponding key value (control character escape off)	Corresponding key value (control characters are escaped)
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 is affected by carriage return and line feed processing configuration)	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter (Performance is affected by carriage return and line feed processing configuration)	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 (serial port and USB virtual serial port)

<i>Decimal system</i>	Hex	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

## Some functional configuration instructions and examples

Configure barcode prefix / suffix by scanning barcode, each prefix or suffix can be up to 10 characters. (To ensure that custom suffixes can be output, please configure the scanner's custom suffix / suffix output options to be on.)

### Example 1.1: Add customized prefix XYZ to all types of barcodes

Check the appendix barcode type ID table. The HEX value of all barcode systems is 99. Check the visible character ASCII table. The HEX value corresponding to XYZ is 58,59,5A.

Scan the configuration code customized prefix, the barcode scanner will issue two beeps, and then scan the appendix data and edit the 9, 9, 5, 8, 5, 9, 5, A in the barcode, Save, then complete the configuration.

If you need to modify the scanned barcode before saving, you can also scan to "cancel the previous data" or "cancel a previously read string of data" . If you need to abandon the configuration midway, scan directly cancel the current setting.

### Example 1.2: Add customized prefix R to QR code

Query the appendix barcode type ID table. The HEX value of the QR code is 51. Query the visible character ASCII table. The HEX value corresponding to R is 52.

Scan the configuration code to customize the prefix, then scan the data in the appendix and edit 5,1,5,2 in the barcode, save, then complete the configuration.

### **Example 1.3: Cancel customized prefix of QR code**

When customized suffixes are used, no additional characters are saved after the barcode type characters to save the customized suffixes for this type of barcode.

Scan the configuration code “customize the prefix” , then scan the appendix data and edit 5, 1 in the barcode, save, and complete the configuration.

**Note:** If there is a prefix added for all barcodes before, the QR code prefix will be restored to the prefix added for all barcodes after configuration.

If you need to clear the prefix / suffix added for various barcode types, scan “clear all customized prefixes” and “ clear all customized suffix configuration codes” .

## **Barcode Length Limited Setting Example**

When configuring the minimum barcode length configuration, you must ensure that the configured minimum length is not bigger than the current maximum length configuration, otherwise an error will be prompted.

Similarly, when configuring the maximum bar code length, you must also



ensure that the configured maximum length is not less than the current minimum length configuration.

### **Example 2.1: Configure Code 128 barcode length to 4-12 digits**

Scan “Code 128 minimum length limit” , then scan 4 in the appendix data and edit the barcode, save,

Scan “Code 128 maximum length limit” , then scan the appendix data and edit the 1, 2 in the barcode, save, then complete the configuration.

### **Example 2.2: Configure the length of Interleaved 2 of 5 barcode to 14 digits**

Configure Interleaved 2 of 5 barcode length 14 bits can directly scan and configure the barcode “ITF25 14-bit length” for configuration, or configure the maximum and minimum barcode length:

Scan “ Interleaved 2 of 5 minimum length limit” , then scan appendix data and edit 1, 4 in barcode, save,

Scan “ Interleaved 2 of 5 maximum length limit” , then scan the appended data and edit the 1, 4 in the barcode, save, then complete the configuration.

### **Example 2.3: Configure Code 39 barcode length to any supported length**

Scan “ Code 39 minimum length limit” , then scan appendix data and edit 0 in barcode, save,

Scan “Code 39 maximum length limit” , then scan the appendix data and edit the 0 in the barcode, save, then complete the configuration.

### **USB keyboard send speed configuration example**

If the client PC has weak performance and is easy to transmit error, you need to customize the USB keyboard sending speed to a slower speed, such as 50ms:

Scan the “ Customize speed” , then scan the appended data and edit the 5,0 in the barcode, save it, then complete the configuration.

## **Warning sound**

When the data transmission is abnormal, the scanner will issue four continuous alarm sounds. If this happens, please check whether the connection line is normal.

## **Reading tips**

1. In order to obtain a good reading effect, the aiming beam emitted by the handheld scanner should be aimed at the center of the barcode, but it can be aimed in any direction for reading.
2. Hold the scanner in front of the barcode and press the button to align the collimator beam with the center of the barcode.
3. When the handheld scanner is close to the barcode , the smaller the aiming beam ,Or the larger the aiming beam.
4. If the barcode is small, the handheld scanner should be close to the barcode. If the barcode is large, the handheld scanner should be a little far away from the barcode, so that it is easier to read the barcode correctly.

5. If the barcode is highly reflective (for example: coated surface), you may need to make the scanner at an angle to successfully scan the barcode.



### Safety

When using the handheld scanner, the illumination light is strong. Do not look directly or aim at your eyes to avoid discomfort or injury.

## Introduction to part 2 – Wireless Functions

This second part of the manual is mainly used to introduce how to set up wireless related functions of wireless scanner products.

You can set the scanner by setting it up.

### Setup code

The scanner can set the corresponding function by reading one or a group of special barcodes. In the following chapters, we will introduce the corresponding setting options and functions in detail and provide the corresponding setting codes.

# Use instructions

All the functions of this barcode scanner are set by scanning the setting barcodes. First, scan "enter setup mode" barcode, and then scan the function barcode to be set, then scan the "exit setup mode" barcode after finishing setting. Some common function barcodes can scan the function barcode directly to complete the setting. This kind of barcode identification is ★, such as "★ power display".



%%EnterSet



%%EnterSet

Enter Setup Mode



%%ExitSet



%%ExitSet

Exit Setup Mode

Note: Wireless Version 1.18D later supports setting without entering or exiting settings.

# Restore Wireless Parameters

If in use of the process, accidentally scan to other function settings code, which led to the scanning function cannot be used normally, through the scan initialization barcode to restore to the initialization state.



%%SpecCode93



%%SpecCode93

Restore Wireless Parameters

## Instructions:

This bar code is most likely to be used in the following situations:

1. Error in scanner setting.
2. You forget what settings you made for scanners before, and you don't want to use the previous settings.
3. Set up the scanner to use some unusual functions, and use after completion.

## Setting Custom Default Settings

By setting custom default settings, the default values of wireless parameters of wireless scanner can be set to the required functions. First scan the "Enter Settings Mode" bar code, then scan the required wireless parameter function, and then scan the "Exit Settings Mode" bar code after the completion of settings. The existing function will replace the original factory default value after the settings are completed, and the original state will not be restored even if the settings for restoring wireless parameters are set.



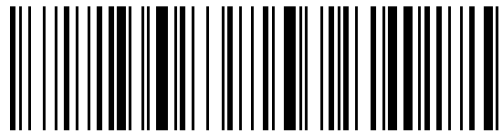
%%SpecCode92



%%SpecCode92

Setting Custom Default Settings

## Version



%%SpecCode39

Display version information

# Wireless Matching Function Settings

This equipment can complete the wireless pairing operation in accordance with the following steps, the default factory has good pairing.



%%SpecCode99



%%SpecCode99

## Matching with Receiver

1. Pull out the wireless Receiver from the computer.
2. Scan " Enter Setup Mode ".
3. Scanning " Matching with Dongle " enters the matching mode, at which time the scanner light is extinguished and the code cannot be read.
4. Insert the receiver into the computer USB interface.
5. When you hear "DI", the receiver pair is successful.
6. Scan "Exit Setup Mode"



# Communication mode switching

a: Start the scanner and scan the "Enter Setup Mode" bar code



%%EnterSet



%%EnterSet

Enter Setup Mode

b: Scanning a Bar Code for a Communication Mode Based on Requirements



%%SpecCodeA8



%%SpecCodeA8

2.4G Mode



%%SpecCodeA9



%%SpecCodeA9

Virtual Bluetooth Mode



%%SpecCodeAA



%%SpecCodeAA

Bluetooth HID Mode



%%SpecCodeAB



%%SpecCodeAB

Bluetooth SPP Mode



%%SpecCodeAC



%%SpecCodeAC

### Bluetooth BLE Mode

c: Scan the "Exit Setup Mode" bar code and set up the communication mode to complete.



%%ExitSet



%%ExitSet

### Exit Setup Mode

## Shutdown

Users can set bar codes by referring to "automatic sleep time". When users do not need the scanner to be in working state, they first scan the "Enter Setting Mode" bar code, and then scan the "Shutdown Instruction" to set bar codes. When the settings are completed, the scanner will be shut down immediately.



%%SpecCode38



%%SpecCode38

### Shutdown

## Electric quantity display

When users need to view the current scanner power, they can directly scan the "power display" set bar code, and view the current scanner power.



%%SpecCode15



%%SpecCode15

★Electric quantity display

# Wireless transmission mode

The barcode scanner has two operating modes: Synchronous Mode and storage mode, through a different set code to operate the mode switch:

a: First scan "Enter setup mode " barcode

b: Scan the required operating mode barcode

c: Scan "Exit Set mode" barcode to switch the desired mode of operation

## Synchronous mode

Scanning "Synchronization Mode" sets bar code, setting bar scanner as synchronization mode, users scan common bar code, that is, sweep-and-pass, and discard it when disconnected.



%%SpecCode10



%%SpecCode10

★Synchronous mode★

## Storage mode

Scanning "storage mode" sets bar code, setting bar scanner as storage mode, users scan common bar code, do not upload directly to the computer, data will be stored in the bar code.



%%SpecCode11



%%SpecCode11

★ Storage mode

# Data Control (Data Processing for Storage Mode)

## Data upload

When users need to upload data stored in barcodes to computers or mobile devices, scanning "data upload" can upload data to computers or mobile devices.

When using data upload, the barcode stored by the original scanner will not be deleted unless the data is scanned to clear the barcode.



%%SpecCode16



%%SpecCode16

★data upload

## Total data

When users need to count the total amount of data stored in barcodes, scanning "Total Data" can upload the total amount of data stored in scanners to computers or mobile devices.



%%SpecCode17



%%SpecCode17

★Total data

## Data clear

When the user needs to clear the data stored in the scanner, scanning "data clear" can clear all the data stored in the scanner.



%%SpecCode18



%%SpecCode18

★data clear

# Long press 8 seconds into Bluetooth HID search

When using Bluetooth Scanner, the Bluetooth configuration connection can be faster when the HID search of Bluetooth is opened for 8 seconds.

A: Start the scanner and scan the "Enter Setup Mode" bar code



%%EnterSet



%%EnterSet

Enter Setup Mode

B: Functional Barcode for Scanning

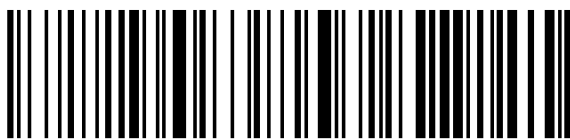


%%SpecCode79



%%SpecCode79

long press 8 seconds to enter Bluetooth HID search



%%SpecCode78



%%SpecCode78

Close long press 8 seconds to enter Bluetooth HID search

C: Scan the "Exit Setup Mode" bar code and set up the communication mode to complete.



%%ExitSet



%%ExitSet

Exit Setup Mode



# Scanner Matching Steps

## Computer Matching (2.4 G)

For 2.4G matching steps, support XP, Win7, Win8, Win10, etc.

A: Start the scanner, scan "Enter Setup Mode" barcode



%%EnterSet



%%EnterSet

Enter Setup Mode

B: Scan "2.4G Mode" barcode



%%SpecCodeA8



%%SpecCodeA8

2.4G Mode

C: Scan the "Matching with Receiver" bar code and enter the pairing state. The blue light on the left flashes quickly.

Note: At this time, the scanner is in a paired state, and the scanner does not glow when pressing the key.



%%SpecCode99



%%SpecCode99

Matching with Receiver

D: Insert Dongle (receiver) and hear a "drop" sound, indicating the success of the connection pairing. The blue indicator on the right is always on.

E: Scan the "Exit Setup Mode" bar code to complete the matching process.



%%ExitSet



%%ExitSet

## Exit Setup Mode

### Bluetooth terminal matching

Using Bluetooth mode, support Android, IOS system or PC terminal with Bluetooth function.

#### **Method 1:**

A: Start the bar scanner, press the button for 8 seconds, and enter the Bluetooth HID matching mode. The left and right blue lights flicker alternately.

B: Turn Bluetooth on the device and search for "Barcode Scanner HID".

C: Click on the "Barcode Scanner HID" Bluetooth device to enter the pairing state.

d: Match success "Di" sound, the right blue light is always bright

**Method 2:**

a: Start the scanner, scan "Enter Setup Mode" barcode



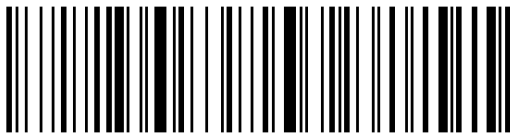
%%EnterSet



%%EnterSet

Enter Setup Mode

b: Scan the "Bluetooth HID mode" barcode



%%SpecCodeAA



%%SpecCodeAA

Bluetooth HID Mode

c: Scan the "Paired With Dongle" barcode, enter the pair state. The left and right blue light will flash alternately. ( Or click the button double times to exit setup mode, back to the scanning state.)



%%SpecCode99



%%SpecCode99

Paired With Dongle

d: Open Bluetooth in the device and search for the Barcode scanner HID

e: Click the Bluetooth device to enter the match status

f: Match success "Di" sound, the right blue light is always bright

g: Scan "Exit Setup Mode" barcode



%%ExitSet

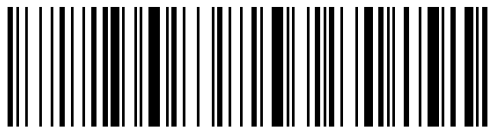


%%ExitSet

Exit Setup Mode

# Android, IOS system keyboard settings (Bluetooth function)

IOS keyboard out or hide (HID Mode)



%%SpecCode1A



%%SpecCode1A

★Out Or Hide

Double click for out IOS keyboard (Only HID Mode)



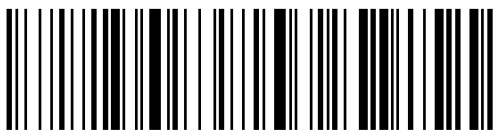
%%SpecCode7B



%%SpecCode7B

★Double click for out IOS keyboard

Double click for close IOS keyboard (Only HID Mode)



%%SpecCode7A



%%SpecCode7A

★Double Click For Close IOS keyboard

For keyboard display of Android system, please contact the supplier for Bluetooth input method APP (because of Android system, some mobile phone manufacturers can display virtual keyboard when connecting Bluetooth scanner)

# Transmission Speed Setting

A: Start the scanner and scan the "Enter Setup Mode" barcode



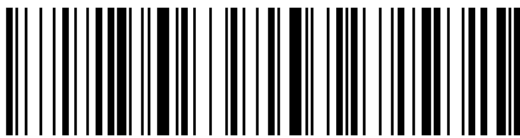
%%EnterSet



%%EnterSet

Enter Setup Mode

B: Select the desired keyboard language



%%SpecCodeB0



%%SpecCodeB0

Fast



%%SpecCodeB1



%%SpecCodeB1

Medium



%%SpecCodeB2



%%SpecCodeB2

Low



%%SpecCodeB3



%%SpecCodeB3

Very Low

c: scan "Exit Setup Mode" barcode



%%ExitSet



%%ExitSet

Exit Setup Mode

# Set Bluetooth Name

A: start scanning scanner, "enter setup mode" bar code



%%EnterSet



%%EnterSet

enter setup mode

B: Scan "Set Bluetooth Name" Barcode



%%SpecCodeEC



%%SpecCodeEC

Set Bluetooth Name

C: Scan Bluetooth Name Barcode

Note: The default name of Bluetooth is "Barcode Scanner". After this step is set, the bar code will be set to the name of Bluetooth.

A) Names can only be set to 16 bytes at most. If the name bar code exceeds 16 bytes, the first 16 bytes are used as Bluetooth names by the scanner.

B) The complete name of Bluetooth includes: Bluetooth name + protocol type, which only supports modification of Bluetooth name. After changing the Bluetooth name, the names of all Bluetooth protocols have changed.

For example, if the Bluetooth name is Scanner, then the Bluetooth HID name is Scanner HID, the SPP name is Scanner SPP, and the BLE name is Scanner BLE.



Scanner



Scanner

Sample Bluetooth Name "Scanner "

C: Scan "Exit Setup Mode" bar code, set successfully.



%%ExitSet



%%ExitSet

### Exit Setup Mode

### Read Bluetooth Name

Scanning the "Read Bluetooth Name" bar code will query the Bluetooth name of the scanner.

Scanning the "Read Bluetooth Name" bar code will query the Bluetooth name of the scanner.



%%SpecCodeED



%%SpecCodeED

### Read Bluetooth Name



# Sound setting

A: Start the scanner and scan into the setup mode barcode



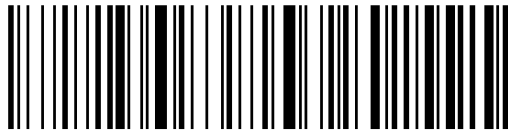
%%EnterSet



%%EnterSet

Enter Setup Mode

B: Select the appropriate sound size or frequency to scan according to the needs and set the bar code



%%SpecCode94



%%SpecCode94

turn sound off



%%SpecCode95



%%SpecCode95

Low volume

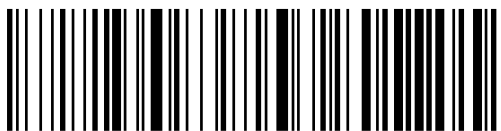


%%SpecCode96



%%SpecCode96

Middle volume



%%SpecCode97



%%SpecCode97

High volume \*



%%SpecCode7C

Buzzer frequency 2K



%%SpecCode7C



%%SpecCode7D

Buzzer frequency 2.7K



%%SpecCode7D

C: Scan "Exit Settings Mode" bar code, set successfully.



%%ExitSet

Exit Setup Mode



%%ExitSet

# Vibration setting

A: Start the scanner and scan into the setup mode barcode



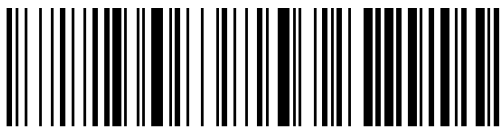
%%EnterSet



%%EnterSet

Enter Setup Mode

B: Select the bar code that you want to turn on or off the vibration



%%SpecCode76



%%SpecCode76

Turn Off Vibration (optional)



%%SpecCode77



%%SpecCode77

Turn On Vibration (optional)

C: scan "Exit Setup Mode" barcode



%%ExitSet



%%ExitSet

Exit Setup Mode

Note: Vibration function is selected for some products.

# Sleep time setting

A: Start the scanner and scan into the setup mode barcode



%%EnterSet



%%EnterSet

Enter Setup Mode

b: Select the sleep interval bar code



%%SpecCode30



%%SpecCode30

Sleep interval 30s



%%SpecCode31



%%SpecCode31

Sleep interval 1min



%%SpecCode32



%%SpecCode32

Sleep interval 2min



%%SpecCode33



%%SpecCode33

Sleep interval 5min

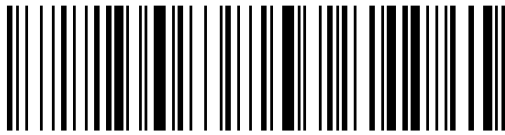


%%SpecCode34



%%SpecCode34

Sleep interval 10min

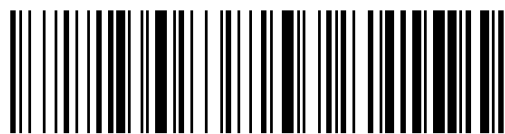


%%SpecCode35



%%SpecCode35

Sleep interval 30min



%%SpecCode36



%%SpecCode36

Never Sleep



%%SpecCode38



%%SpecCode38

Sleep Immediately

c: scan" Exit Setup Mode" barcode



%%ExitSet



%%ExitSet

Exit Setup Mode

# Language Settings

A: Start the scanner and scan into the setup mode barcode



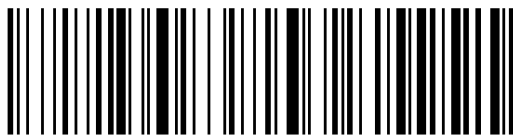
%%EnterSet



%%EnterSet

Enter Setup Mode

b: Select the desired keyboard language



%%SpecCode40



%%SpecCode40

English



%%SpecCode41



%%SpecCode41

Germany

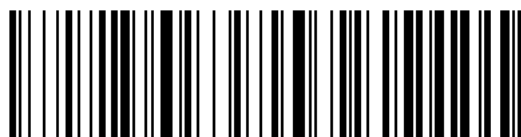


%%SpecCode42



%%SpecCode42

French



%%SpecCode43



%%SpecCode43

Spanish



%%SpecCode44



%%SpecCode44

Italian



%%SpecCode45



%%SpecCode45

Japanese

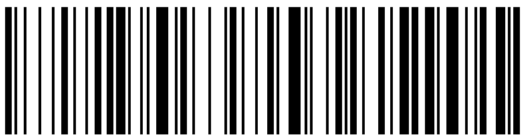


%%SpecCode47



%%SpecCode47

Belgian



%%SpecCode46



%%SpecCode46

International general keyboard

c: scan" Exit Setup Mode" barcode



%%ExitSet



%%ExitSet

Exit Setup Mode

Note: The international general keyboard supports all PC-side small languages.

# Suffix setting

A: Start the scanner and scan the "Enter Setup Mode" bar code



%%EnterSet



%%EnterSet

Enter Setup Mode

B: Select the appropriate terminator to scan according to the requirement and set the bar code. The default is CR.



%%SpecCode9C

Add CR\*



%%SpecCode9C



%%SpecCode9D

Add LF



%%SpecCode9D



%%SpecCode9E

Add CR+LF



%%SpecCode9E



%%SpecCodeA2

Add TAB



%%SpecCodeA2





%%SpecCode9F



%%SpecCode9F

None

C: Scan "Exit Setup Mode" bar code, complete settings



%%ExitSet



%%ExitSet

C: Scan "Exit Setup Mode" bar code, complete settings

# Case conversion settings

A: Start the scanner and scan the "Enter Setup Mode" bar code



Enter Setup Mode

B: Select the appropriate barcode settings to scan according to the requirements, and do not convert case to case.



Convert to lowercase



Convert to uppercase



Case interchange



No case conversion \*

C: Scan "Exit Setup Mode" bar code, complete settings



%%ExitSet



%%ExitSet

### Exit Setup Mode

Note: This feature requires support after version 1.18D.

# Hidden Character GS Replacement Function

A: Start the scanner and scan the "Enter Setup Mode" bar code



%%EnterSet



%%EnterSet

Enter Setup Mode

B: Select the appropriate settings to scan the bar code according to the requirement, and set whether the GS character bit "|" needs to be replaced.



%%SpecCodeEF



%%SpecCodeEF

Open GS character instead of "|"



%%SpecCodeEE



%%SpecCodeEE

Close the GS character and replace it with "|"\*

C: Scan "Exit Settings Mode" bar code, complete settings



%%ExitSet



%%ExitSet

Exit Setup Mode

Note: This feature requires support after version 1.18D.

# Add prefix and suffix settings

This product supports up to 32-byte prefix and suffix settings.

A: Start the scanner and scan the "Enter Setup Mode" bar code



%%EnterSet



%%EnterSet

Enter Setup Mode

B: Select the appropriate bar code to scan according to the requirements, and set the prefix and suffix to add.



%%SpecCode9A



%%SpecCode9A

Set prefix



%%SpecCode9B



%%SpecCode9B

Set suffix

C: Scan "Exit Settings Mode" bar code, complete settings



%%ExitSet



%%ExitSet

Exit Setup Mode

### Setting the prefix and suffix steps

A: First scan the "Enter Settings Mode" bar code;

B: Scan the "Set Prefix" or "Set Suffix" barcodes;

C: Scanning the barcode corresponding to the characters that need to be added according to Appendix-Character Table;

C: Scan the "Exit Settings Mode" bar code to complete the settings.

### Cancel the prefix and suffix steps

A: First scan the "Enter Settings Mode" bar code;

B: Scan the "Set Prefix" or "Set Suffix" barcodes;

C: Scan the "Exit Settings Mode" bar code to complete the settings.

# Hidden Character Settings

This product supports hiding up to four characters before and after default barcode

A: Start the scanner and scan the "Enter Setup Mode" bar code



%%EnterSet

Enter Setup Mode

B: Select the appropriate settings to scan the barcode according to the requirements, and set the front or back of the hidden barcode.



%%SpecCodeA0

Hidden Bar Code Front



%%SpecCodeA1

Hide the back of the bar code

C: Select the appropriate bar code to scan and set the number of hidden characters according to the requirement



%%01

Hide 1 bits



%%02

Hide 2 bits



%%03

Hide 3 bits



%%04

Hide 4 bits

C: Scan "Exit Settings Mode" bar code, complete settings



%%ExitSet

Exit Setup Mode



## Appendix -Led & Buzzer state description

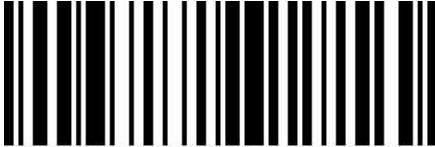

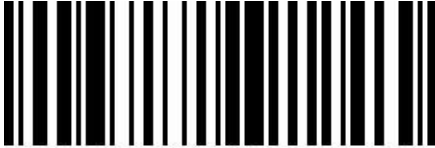

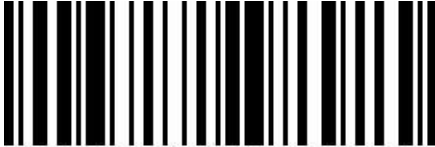









LED Light	Description
Left blue LED 1	Flash briefly if scanning
Right blue LED 2	successfully Wireless connection
Red LED	Charging
Blue 2 off, blue 1 Flash quickly	2.4G pairing mode
Blue 1 off, Blue 2 Flash quickly	SPP pairing mode
Blue 1 and Blue2 alternately flash	HID pairing mode
Blue 1 and Blue 2 Synchronize flash quickly	BLE pairing mode

## Appendix - buzzer prompt sound

Buzzer	Description
A long Sound	Power ON/OFF
A short sound(low frequency)	Scan common barcode, or paired, wireless connection success
3 short sound(low frequency)	Wireless transmission failure buffer full
5 short sound(low frequency) and stop scanning	Battery without electricity
2 short sound(low frequency)	Wireless disconnection
2 short sound(high frequency)	Setup code scanning is not work

Note: The lighting instructions in this section vary slightly according to different product configurations. If you need to know more, you can contact the supplier.

# Appendix - Character List

Serial number	character	1D Setup Code	2D Setup Code
1	SOH	 %%01	 %%01
2	^B	 %%02	 %%02
3	^C	 %%03	 %%03
4	EOT	 %%04	 %%04
5	ENQ	 %%05	 %%05
6	ACK	 %%06	 %%06
7	BEL	 %%07	 %%07

8 Back Space

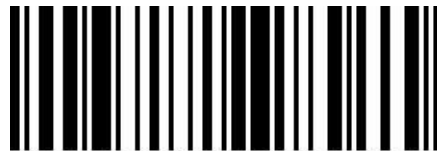


%%08



%%08

9 Tab

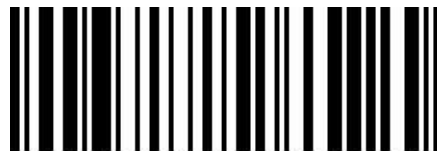


%%09



%%09

10 LF

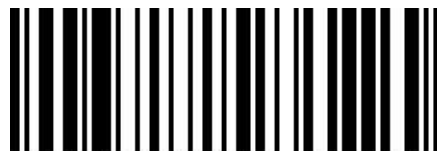


%%0A



%%0A

11 VT

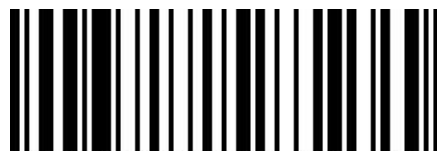


%%0B



%%0B

12 FF



%%0C



%%0C

13 CR

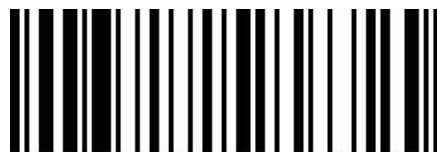


%%0D



%%0D

14 F1

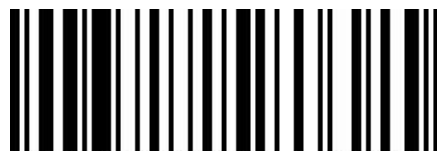


%%0E



%%0E

15 F2



%%0F



%%0F

16 F3



%%10



%%10

17 F4

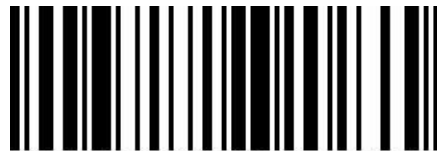


%%11



%%11

18 F5



%%12



%%12

19 F6

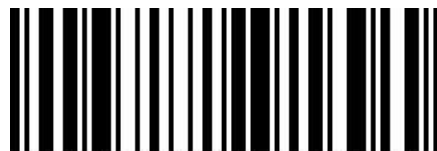


%%13



%%13

20 F7



%%14



%%14

21 F8



%%15



%%15

22 F9



%%16



%%16

23 F10



%%17



%%17

24 F11

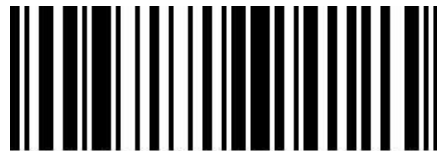


%%18



%%18

25 F12

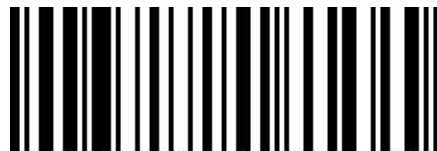


%%19



%%19

26 SUB

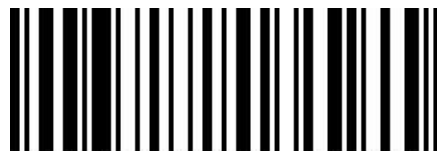


%%1A



%%1A

27 Esc

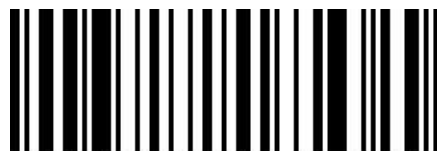


%%1B



%%1B

28 Right Arrow



%%1C



%%1C

29 Left Arrow



%%1D



%%1D

30 Up Arrow

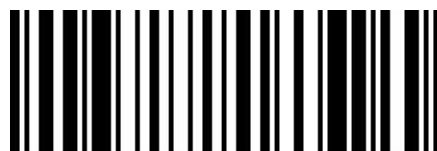


%%1E



%%1E

31 Down Arrow



%%1F



%%1F

32 Space

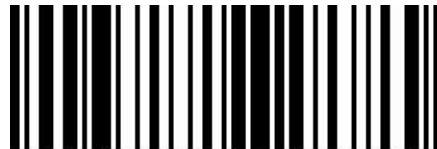


%%20



%%20

33 !

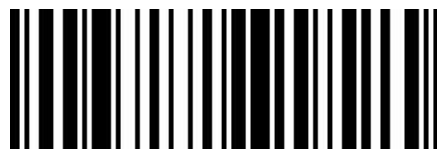


%%21



%%21

34 "

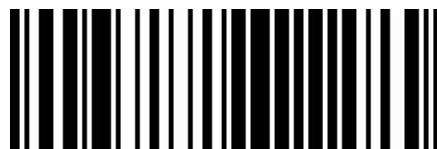


%%22



%%22

35 #

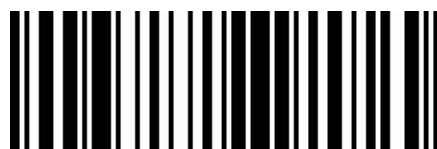


%%23



%%23

36 \$

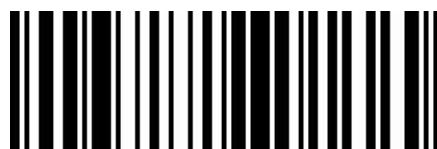


%%24



%%24

37 %

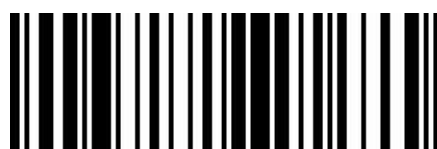


%%25



%%25

38 &

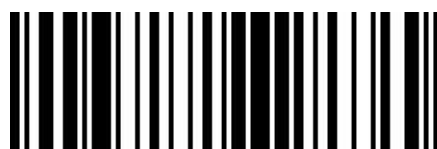


%%26



%%26

39 '



%%27



%%27

40

(



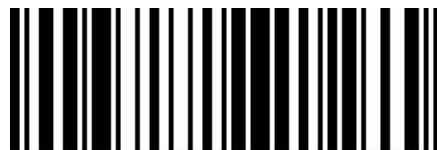
%%28



%%28

41

)



%%29



%%29

42

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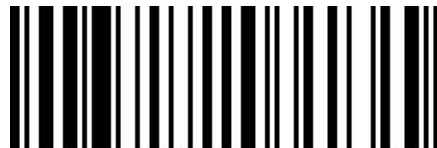
%%2A



%%2A

43

+



%%2B



%%2B

44

,



%%2C



%%2C

45

-



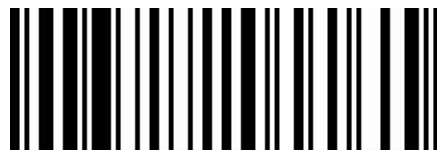
%%2D



%%2D

46

.



%%2E



%%2E

47

/



%%2F



%%2F



48

0



%%30



%%30

49

1



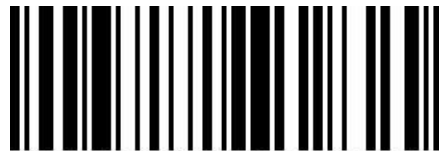
%%31



%%31

50

2



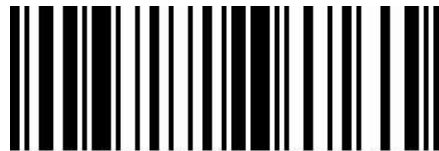
%%32



%%32

51

3



%%33



%%33

52

4



%%34



%%34

53

5



%%35



%%35

54

6



%%36



%%36

55

7



%%37



%%37

56 8

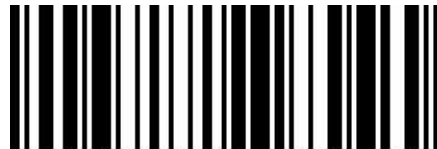


%%38



%%38

57 9

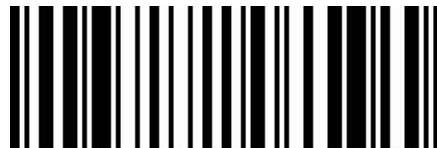


%%39



%%39

58 :



%%3A



%%3A

59 ;

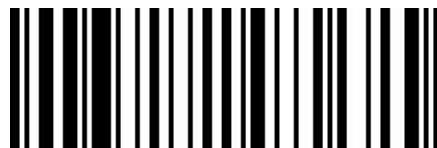


%%3B



%%3B

60 <



%%3C



%%3C

61 =

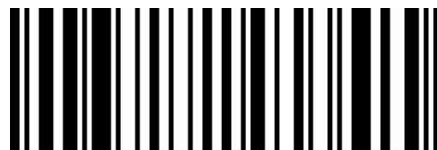


%%3D



%%3D

62 >

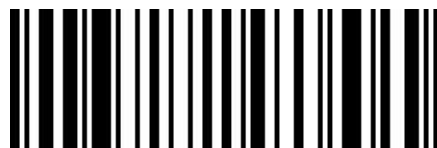


%%3E



%%3E

63 ?



%%3F



%%3F

64 @

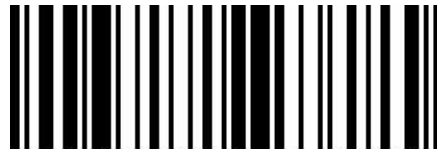


%%40



%%10

65 A

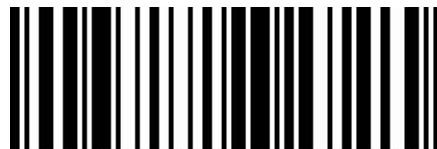


%%41



%%11

66 B

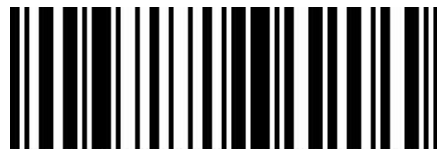


%%42



%%12

67 C

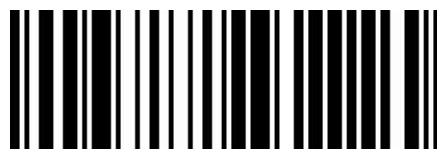


%%43



%%13

68 D



%%44



%%14

69 E



%%45



%%15

70 F

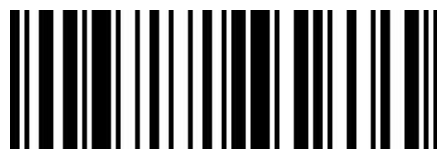


%%46



%%16

71 G

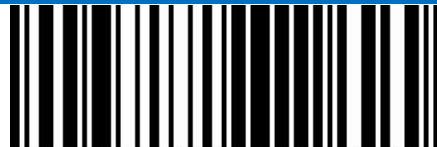


%%47



%%17

72 H

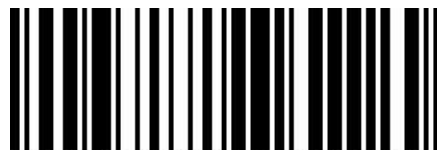


%%48



%48

73 I



%%49



%49

74 J



%%4A



%4A

75 K

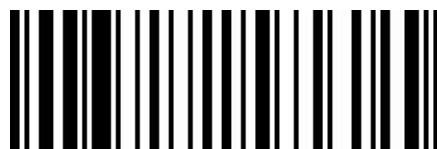


%%4B



%4B

76 L



%%4C



%4C

77 M

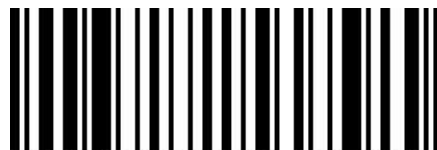


%%4D



%4D

78 N



%%4E



%4E

79 O



%%4F



%4F

80

P



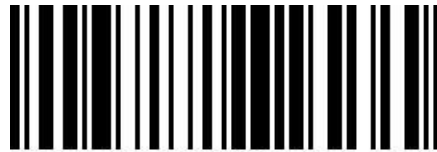
%%50



%%50

81

Q



%%51



%%51

82

R



%%52



%%52

83

S



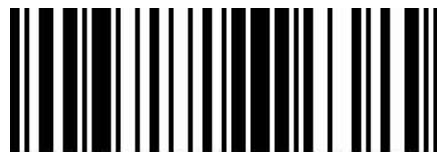
%%53



%%53

84

T



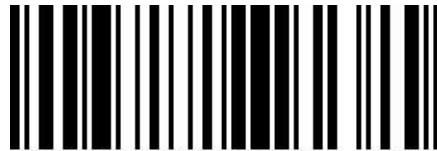
%%54



%%54

85

U



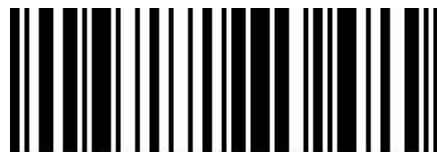
%%55



%%55

86

V



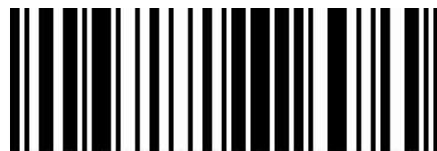
%%56



%%56

87

W



%%57



%%57

88

X



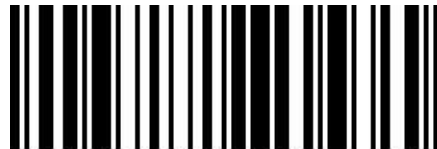
%%58



%%58

89

Y



%%59



%%59

90

Z



%%5A



%%5A

91

[



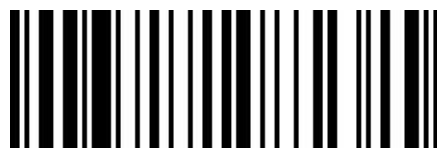
%%5B



%%5B

92

\



%%5C



%%5C

93

]



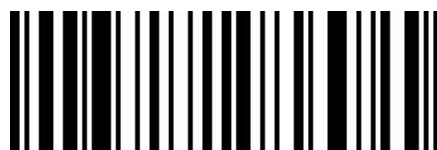
%%5D



%%5D

94

^



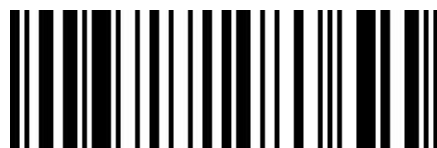
%%5E



%%5E

95

\_



%%5F



%%5F

96

`



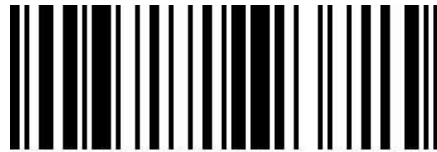
%%60



%%60

97

a



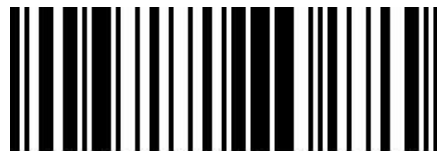
%%61



%%61

98

b



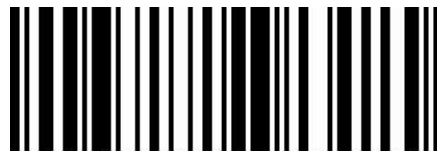
%%62



%%62

99

c



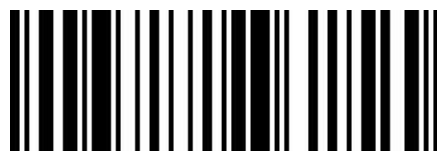
%%63



%%63

100

d



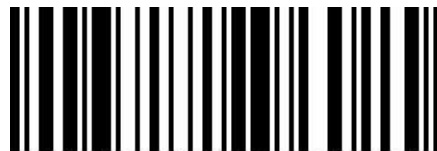
%%64



%%64

101

e



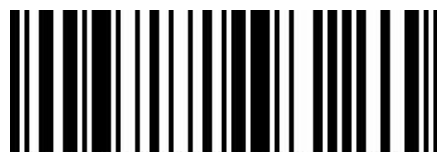
%%65



%%65

102

f



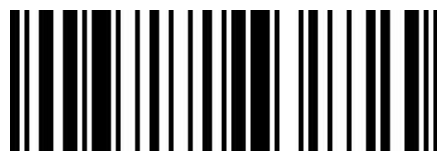
%%66



%%66

103

g



%%67



%%67

104 h



105 i



106 j



107 k



108 l



109 m



110 n



111 o





112 p



113 q



114 r



115 s



116 t



117 u



118 v



119 w



120 x



%%78



%%78

121 y



%%79



%%79

122 z



%%7A



%%7A

123 {



%%7B



%%7B

124 |



%%7C



%%7C

125 }



%%7D



%%7D

126 ~



%%7E



%%7E

127 DEL



%%7F



%%7F

