
User Guide

V1.0.5

About this manual

Please read all the contents of the manual carefully before using the products described in this manual to ensure the safe and effective use of the products. It is recommended to keep this manual properly for future use.

Warning

Please do not cancel the product or tear the seal on the product yourself, otherwise our company will not be responsible for warranty or product replacement.

The pictures in this manual are modified for reference. If individual pictures do not match the actual product, please refer to the actual product. For product improvement and update, the company reserves the right to modify the document at any time without replacing the notice.

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The company has the final interpretation of this manual.

Service Information

If you need more technical support, please call or email us, we are happy to serve you.

Revision History

Version	Description	Date
	Initial	2020-6-17

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1. Getting started

1.1 About the user guide

This user manual includes Symbologies settings, function settings (lighting, keyboard layout, factory default, etc.) and interface settings. If you need to change the function you need, scan the configuration according to the configuration code below.

1.2 Recall Default



DEFAULT

Recall Default



FFFF6A

Read the Version Number

1.3 Interface Mode

Identify as USB keyboard type, scan "USB keyboard" barcode.

USB can be identified as USB com type and USB com type when the application software needs serial port, which requires the user to install the driver.



USBKBD
USB Keyboard



USBMAC
USB MAC



SERIAL
Serial port



USBCDC

USB COM

2. Basic settings

About basic settings

In this chapter, you can configure the function mode of the device, including the working mode (such as image whitening), aimer setting, lighting configuration, LED indicator setting and speaker setting. You only need to scan the corresponding configuration code according to the requirements.

2.1 Scan Mode



TRIGMAN

Manual trigger mode (default)



TRIGPRE

Auto Scan Mode

The sensitivity of automatic scanning mode is 15 levels, 1 is the highest, 15 is the lowest, b67a6x, X represents the level (B67A61-B67A615)



B67A61



B67A64

2.2 Reread Delay-Auto Scan Mode

The reread delay time can be set as 1-127 (minimum 1, maximum 127)

The "^ 3" character should be added before making the configuration barcode,

such as: ^ 37efd6x (X represents the interval time of the same barcode, 1

represents 50ms, 127 represents 127 * 50ms).Please use CODE 128 to make the

configuration if you need. 7efd6x, x represents (7efd61 - 7efd6127)



7EFD61

50ms



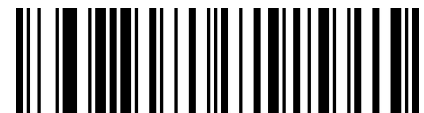
7EFD62

100ms



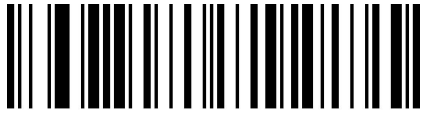
7EFD63

150ms



7EFD64

200ms



7EFD65

250ms



7EFD66

300ms

2.3 Enable/Disable Symbologies



FFFEFD

Enable all symbologies



FFFEFC

Disable all symbologies



FFFEFB

Enable all 1D symbologies



FFFEFA

Disable all 1D symbologies



FFFEF9

Enable all 2D symbologies



FFFEF8

Disable all 2D symbologies

2.4 QR -Mirror Code



A86761

Enable



A86760

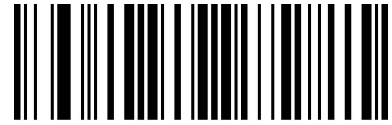
Disable (default)

2.5 DATAMATRIX - Mirror Code



A7F7D1

Enable



A7F7D0

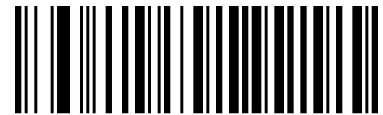
Disable (default)

2.6 Mirror Code for all symbologies



A6D871

Enable



A6D870

Disable(default)

2.7 Inverse Barcode



VIDREV0

Decode regular code only (default)



VIDREV1

Decode inverse code only



VIDREV2

Decode both regular and inverse code

2.8 LED



B66771

Enable Aimer (default)



B66770

Disable Aimer



B66781

Enable Illumination (default)



B66780

Disable Illumination



B66890

Led indicator light is normal (default)



B66891

Led indicator light reversed



B66892

Led indicator light always off



B66893

Led indicator light always on

2.9 Beeper



B667D0

Beeper On(default)



B667D1

Beeper Off

2.9.1 Beeper - Duration



7EA7A0

Normal



7EA7A1

Short



7EB9B7

2.7KHz



7EB9B6

1.6KHz



2.10 Test Mode

After configured to test mode, the device automatically triggers decoding once every second.



FFFFFC

Enable blink test mode



FFFFFD

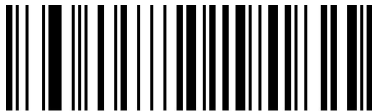
Disable blink test mode (default)

2.11 Three level lighting setting



ADC960

Level 1



ADC961

Level 2



ADC962

Level 3

2.12 Code reading timeout



B6AE620

30s



B6AE640

60s



B6AE680

120s



B6AE6120

180s



B6AE6160

240s



B6AE6200

300s

2.13 RS232 interface setting



FF BFFF

RS232 interface

2.13.1 Baud rate



7BEA60

300



7BEA61

600



7BEA64

4800



7BEA63

2400



7BEA65

9600



7BEA67

19200



7BEA68

38400



7BEA69

57600



7BEA610

115200

2.13.2 Data bit



7C6790

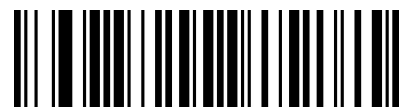
7



7C6791

8

2.13.3 Stop bit



7C67A0

2



7C67A1

1

2.13.4 Check bit



7C69B0

O



7C69B1

S



7C69B2

E



7C69B3

M



7C69B4

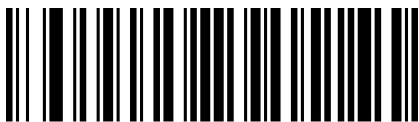
N

3. Output setting

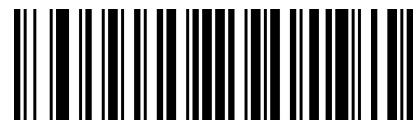
About output setting

In this chapter, you can configure the output of the device, including carriage return / line feed, add prefix / suffix, set the length of barcode, remove the number of digits of barcode (start / end removal) and switch settings of multi-national keyboard. You only need to scan the corresponding configuration code according to the requirements.

3.1 CR/LF setting



RETURN0
No suffix



RETURN1
<data><C

R>



RETURN2
<data><LF>



RETURN3
<data><CR><LF>(default)



RETURN4

<data> <Tab>



RETURN5

<data> <ETX>

3.2 Serial port output



A6C8A2

utf-8



A6C8A1

GBK



A6C8A0

Serial port output according to barcode content

3.3 CTRL + X



ABF771

Enable CTRL +X mode



ABF770

Disable CTRL +X mode (default)



A867D1

Transmit Non-Visible Character



A867D0

Don' t Transmit Non-Visible Character

Non- printable ASCII control characters			Keyboard Control + ASCII (CTRL+ X) Mode		
DEC	HEX	Char	Control + X Mode Off	Windows Mode Control + X Mode On	
				CTRL + X	CTRL + X function
0	00	NUL		CTRL+ @	
1	01	SOH	NP Enter	CTRL+ A	Select all
2	02	STX	Caps Lock	CTRL+ B	Bold
3	03	ETX	ALT Make	CTRL+ C	Copy

4	04	EOT	ALT Break	CTRL+ D	Bookmark
5	05	ENQ	CTRL Make	CTRL+ E	Center
6	06	ACK	CTRL Break	CTRL+ F	Find
7	07	BEL	Enter / Ret	CTRL+ G	
8	08	BS		CTRL+ H	History
9	09	HT	Tab	CTRL+ I	Italic
10	0A	LF		CTRL+ J	Justify
11	0B	VT	Tab	CTRL+ K	hyperlink
12	0C	FF	Delete	CTRL+ L	list, left align
13	0D	CR	Enter / Ret	CTRL+ M	
14	0E	SO	Insert	CTRL+ N	New
15	0F	SI	ESC	CTRL+ O	Open
16	10	DLE	F11	CTRL+ P	Print
17	11	DC1	Home	CTRL+ Q	Quit
18	12	DC2	PrtScn	CTRL+ R	
19	13	DC3	Backspace	CTRL+ S	Save
20	14	DC4		CTRL+ T	
21	15	NAK	F12	CTRL+ U	
22	16	SYN	F1	CTRL+ V	Paste
23	17	ETB	F2	CTRL+ W	
24	18	CAN	F3	CTRL+ X	
25	19	EM	F4	CTRL+ Y	
26	1A	SUB	F5	CTRL+ Z	
27	1B	ESC	F6	CTRL+ [
28	1C	FS	F7	CTRL+ \	
29	1D	GS	F8	CTRL+]	
30	1E	RS	F9	CTRL+ ^	
31	1F	US	F10	CTRL+ -	
127	7F	␣	NP Enter		

3.4 Hide barcode data from start / end

Hide barcode data from start "`^3B68E6X`" (X is the number of data hiding, 1 represents that hide one data, 2 represents that hide one data, 0 represents normal output. Users can configure it by themselves)



B68E61

Hide 1 data from the start

Hide barcode data from end "`^3B88E6X`" (X is the number of data hiding, 1 represents that hide one data, 2 represents that hide one data, 0 represents normal output. Users can configure it by themselves)



A88E61

Hide 1 data from the end

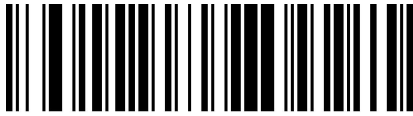
3.5 Set barcode length

The length of the barcode can be set to 1-255 (the minimum length is 1 and the maximum length is 255). When making the configure barcode, the "`^ 3`" character should be added in front of it. For example: `^ 367ee6x` (X represents the length of the barcode), please use CODE 128 to make the configure barcode



67EE61

1 length



67EE6255

255 length



67FE60

Barcode length lock

3.6 Extra code setting



6787D1

Enable 2 extra code



6787D0

Disable 2 extra code(default)



6787C1

Enable 5 extra code



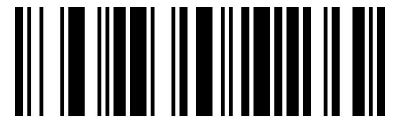
6787C0

Disable 5 extra code(default)



678791

Enable all UPC/EAN with extra code



678790

Disable all UPC/EAN with extra code (default)

3.7 Keyboard layout



7C8A60

Belgium



7C8A61

English



7C8A62

French



7C8A63

German



7C8A64

Italian



7C8A65

Spanish



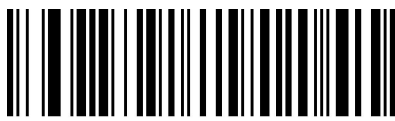
7C8A68

Singapore



7C8A610

Japan



7C8A612

Turkey



7C8A66

America



7C8A69
El Salvador



7C8A611

Sierra Leone



7C8A613

Russia



7C8A614

Hungary



7C8A615

Russian (Russia)



A69E616

Thai

3.8 Virtual keyboard

You may need to type your characters in the form of ASCII code. At this time, you can configure the corresponding configuration code according to the requirements and configure it as an analog keyboard.



A6A761

Enable virtual

keyboard



A6A760

Disable virtual keyboard



A6A771

Enable virtual keyboard zero in front



A6A770

Disable virtual keyboard zero in front

3.9 Convert Case



A68861

All lowercase



A68862

All uppercase



A68860

Default setting

4. Symbologies

About Symbologies

This chapter can configure the barcode Symbologies of the scanner, including UPC / EAN, CodeBar code, code39, full ASCII code39, interleaved 2 of 5, code93, UPC-A, GS1 DataBar omnidirectional, GS1 DataBar expanded, PDF417, QR code, Hong Kong 2 of 5 (China Post) and airline 2 of 5 You only need to scan the corresponding configuration code according to the requirements.

Symbologies

4.1 Airline 2 of 5



6667A1

Enable



6667A0

Disable(default)

4.2 Aztec Code



66C761

Enable



66C760

Disable(default)



66C771

Enable inverse Aztec



66C770

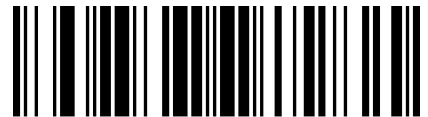
Disable inverse Aztec(default)

4.3 Codabar



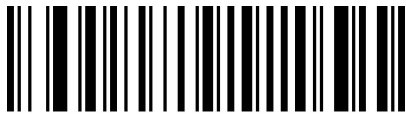
6677A1

Enable (default)



6677A0

disable



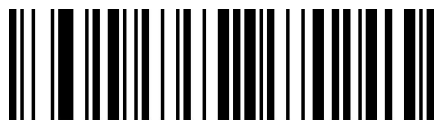
9EF882

Not check (default)



9EF880

Enable check and transmit check bit



6DD7D1

Output start bit and end bit



6DD7D0

Not output start bit and end bit (default)



A888C0

Normal barcode



A888C1

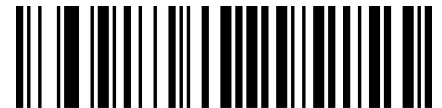
Normal and inverse

4.4 Codablock A



8CA761

Enable



8CA760

Disable(default)

4.5 Codablock F



8CA771

Enable



8CA770

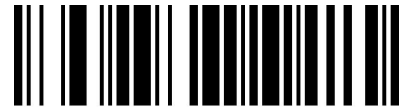
Disable(default)

4.6 Code 128



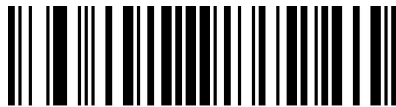
667791

Enable (default)



667790

disable



A878B0

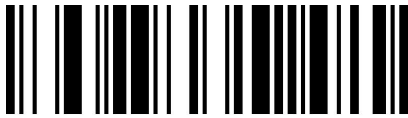
Normal baroce



8CA760

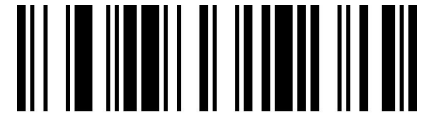
Normal and inverse

4.7 Code 11



666791

Enable



666790

Disable(default)



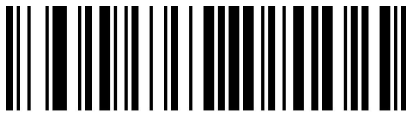
6E67B0

1 check bit (default)



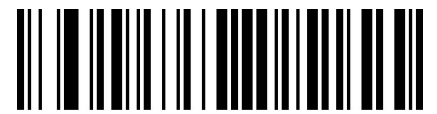
6E67B1

2 check bits



6DD791

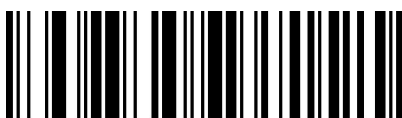
transmit check bit



6DD790

Not transmit check bit (default)

4.8 Code 32



6687B1

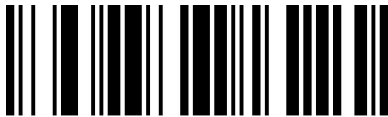
Enable



6687B0

Disable(default)

4.9 Code 39



667771

Enable (default)



667770

Disable



9F6862

Enable check



9F6860

Not check (default)



9F6861

Enable check and transmit check bit



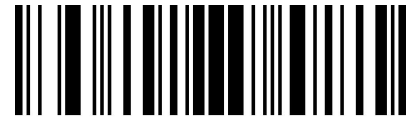
9F6781

Output strat bit and end bit



9F6780

Not output strat bit and end bit (default)



A88880

Normal baroce



A88881

Normal and inverse

4.10 Code 93



667781

Enable



667780

Disable(default)



A88860

Normal baroce



A88861

Normal and inverse

4.11 Composite



A66761

Enable



A66760

Disable(default)

4.12 Data Matrix Code



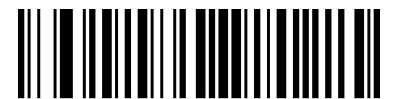
66B791

Enable (default)



66B790

disable



66B781

Enable inverse DM

code



66B780

Disable inverse DM code (default)

4.13 DOT_CODE



A7F771

Enable



A7F770

Disable(default)

4.14 EAN/UPC



6677C1

Enable (default)



6677C0

Disable



A87860
Normal baroce



A87861
Normal and inverse

4.15 EAN-8



6687A1
Enable (default)



6687A0
Disable



6DF761
Output EAN-8 check bit (default)



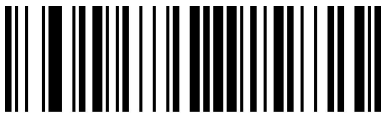
6DF760

Not output EAN-8 check bit



6DB781

EAN-8 to EAN-13



6DB780

Disable EAN-8 to EAN-13(default)

4.16 EAN-13



668771

Enable (default)



668770

Disable



6DF781

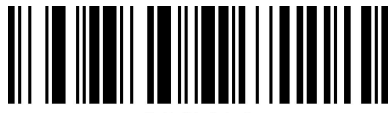
Output EAN-13 check bit (default)



6DF780

Not output EAN-13 check bit

4.17 Full ASCII Code39



6687D1

Enable



6687D0

Disable(default)

4.18 GS1 DataBar Expanded



66A7B1

Enable



66A7B0

Disable(default)

4.19 GS1 DataBar Limited



66A7A1

Enable



66A7A0

Disable(default)

4.20 GS1 DataBar Omnidirectional



66A791

Enable



66A790

Disable(default)

4.21 HANXIN



8D9771

Enable



8D9770

Disable(default)

4.22 Hong Kong 2 of 5(China post)



6697C1

Enable



6697C0

Disable(default)

Notice: When reading a postal, all other postal need close.

4.23 Interleaved 2 of 5



6677B1

Enable



9EF862

Enable check



9EF860

Not check (default)



9EF861

Enable check and transmit check bit



A888A0

Normal baroce



A888A1

Normal and inverse

4.24 Matrix 2 of 5



6667B1

Enable



6667B0

Disable(default)



66B7D0

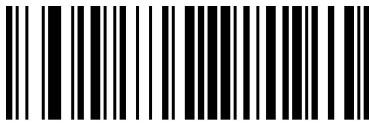
Enable Matrix 2 of 5 check bit



66B7D1

Disable Matrix 2 of 5

check bit



6DE781

Output Matrix 2 of 5 check bit



6DE780

Not output Matrix 2 of 5 check bit (default)

4.25 Maxicode



66C7A1

Enable



66C7A0

Disable(default)

4.26 Micro PDF417



66A7D1

Enable



66A7D0

Disable(default)

4.27 Micro QR Code



66C7B1

Enable



66C7B0

Disable(default)



66C7C1

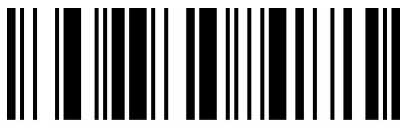
Enable Inverse micro QR



66C7C0

Disable inverse mico QR (default)

4.28 MSI



668781

Enable



668780

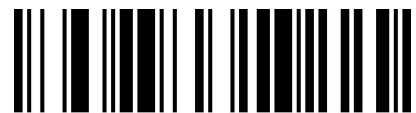
Disable(default)

4.29 PDF417



666761

Enable (default)



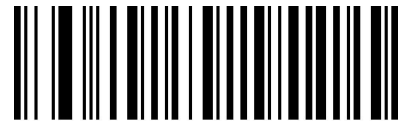
666760

Disable



A8D860

Normal baroce



A8D861

Normal and inverse

4.30 Pharmacode



ACF7B1

Enable



ACF7B0

Disable(default)

4.31 QR Code



66C781

Enable (default)



66C780

Disable



66C791

Enable inverse QR



66C790

Disable inverse QR(default)



A6E760

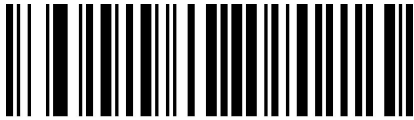
Enable QR code URL link (default)



A6E761

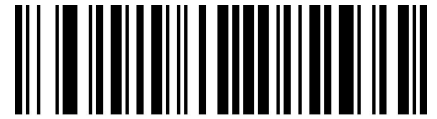
Disable QR code URL link

4.32 RSS-14



66A791

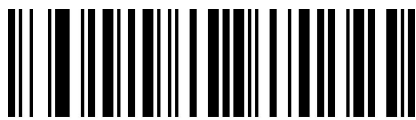
Enable



66A790

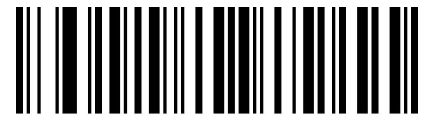
Disable(default)

4.33 RSS-LIMITED



66A7A1

Enable



66A7A0

Disable(defa

ult)

4.34 RSS-EXPANDED



66A7B1

Enable



66A7B0

Disable(default)

4.35 Straight 2 of 5 Industrial



667761

Enable



667760

Disable(default)

4.36 Telepen



6667D1

Enable



6667D0

Disable(default)

4.37 Trioptic Code



669781

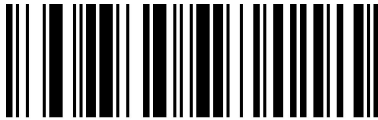
Enable



669780

Disable(default)

4.38 UPC-A



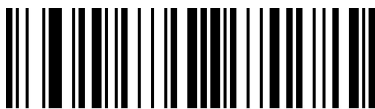
6687C1

Enable (default)



6687C0

Disable



6DB7D1

Transmit UPC-A check bit (default)



6DB7D0

UPC-A not output check bit



6DB771

Output UPC-A digital system character (default)



6DB770

Not output UPC-A digital system character



6DB7A1

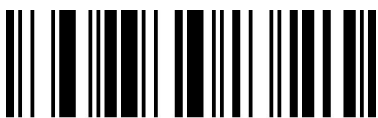
Convert UPC-A to EAN-13



6DB7A0

UPC-A not convert to EAN-13 (default)

4.39 UPC-E



668761

Enable (default)



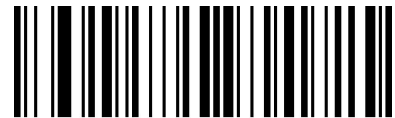
668760

Disable



6DB7C0

Don't transmit UPC-E check digit (default)



6DB7C1

Transmit UPC-E check digit



6DB790

UPC-E do not output header characters (default)



6DB791

UPC-E output header characters



6DB7B1

UPC-E extend to 12 bits



6DB7B0

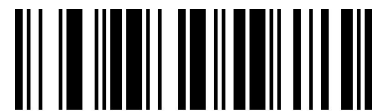
Disable UPC-E extend to 12 bits (default)

4.40 UPCE



668761

Enable (default)



668760

Disable

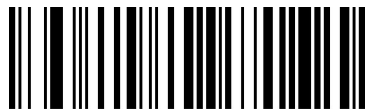
5. Special function configuration (example)

About special function configuration

This chapter enumerates some configuration examples of equipment use, specifically describes the configuration method of special functions, so as to facilitate users to carry out actual operation, so as to be familiar with the use of products. You only need to scan the corresponding configuration code according to the requirements to complete the configuration of special functions.

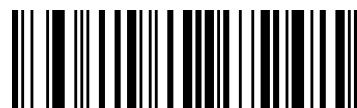
Only set Interleaved 2 of 5 prefix and suffix

5.1 Prefix



A6A7D1

Enable



A6A7D0

Disable

5.2 Suffix



7CC7D1

Enable



7CC7D0

Disable

5.3 Enable characters after 24 bits not output

If the barcode data is (123456789012345678901234ABCDEF)

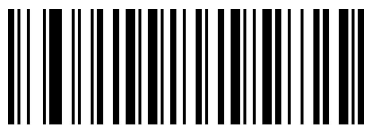
Scan the configuration code below:



B68E624

Output: 123456789012345678901234

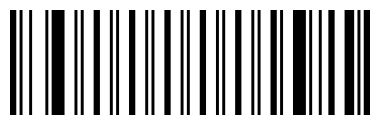
Output all characters:



B68E60

Output: 123456789012345678901234ABCDEF

5.4 Chinese input setting



FFFFE

Default setting



A67964

Utf-8

(only for word document,can not be used on TXT、 excel)



7CC790

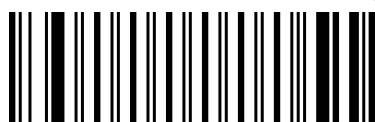
Cancel enter



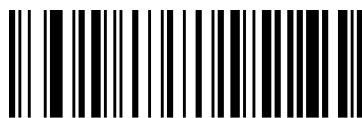
7CC780

Cancel line feed

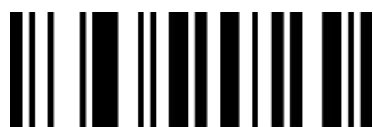
5.4.1 Add “#” as suffix (setting steps)



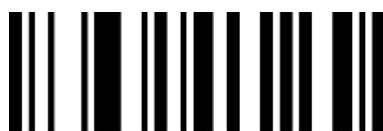
FFFFFFF



6ABF60



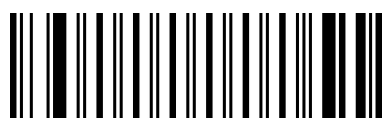
0



3



5



FFFFFFF

5.5 Programming mode:

Bar code length locking configuration (support up to 6 bar code type length locking)

Add a single bar code type length lock configuration process:

Example 1

The length of code 128 is 10, and the byte value of code 128 is 083 by looking up the barcode type table.

1. Scan "enter / exit programming mode" to put the device into programming mode.
2. Scan "configure barcode type 1 length".
3. Scan bytecode values "0", "1", "0" in turn.
4. Scan "configure barcode type 1 byte value".
5. Scan byte code values "0", "8" and "3" in turn.
6. Scan "enter / exit programming mode".

Add length lock for multiple barcode types:

Example 2

1. Scan "enter / exit programming mode" to put the device into programming mode.
2. Scan "configure barcode type 1 length".
3. Scan bytecode values in turn.
4. Scan "configure barcode type 1 byte value".
5. Scan bytecode value in turn.
6. Scan "configure barcode type 2 length".
7. Scan bytecode values in turn.

8. Scan "configure barcode type 2 byte value".

9. Scan bytecode values in turn.

10. Scan enter / exit programming mode.



Enter / exit programming mode



configure barcode type 1 length



Configure barcode type 1 byte value



Configure barcode type 2 length



Configure barcode type 2 byte value

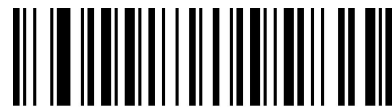


Configure barcode type 3 length



68BF60

Configure barcode type 3 byte value



68CF60

Configure barcode type 4 length



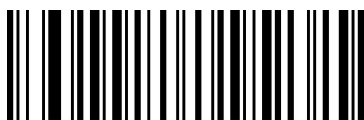
68DF60

configure barcode type 4 byte value



68EF60

configure barcode type 5 length



68FF60

configure barcode type 5 byte value



696F60



697F60

configure barcode type 6 byte value

Bytecode value (decimal)



0



1



2



3



4



5



6



5.6 Bar code type table

Barcode byte value	Barcode Type
002	UPC-E
003	EAN-8
004	UPC-A
005	EAN-13
080	CODE 39
081	CODABAR
082	INTERLEAVED 2 OF 5
083	CODE 128
084	CODE 93
091	MSI
092	CODE 11
093	AIRLINE 2 OF 5
094	MATRIX 2 OF 5
095	TELEPEN

096	UK PLESSEY
097	AIRLINE(13 DIGITS)
098	STANDARD 2 OF 5
099	TRIOPTIC
101	RSS14
102	RSS LIMIT
103	RSS EXT
104	PDF417
105	MICRO PDF417
106	DATA MATRIX
107	AZTEC
108	QR
109	MAXICODE

Add Prefix / Suffix (up to 10 characters can be added respectively)

Add prefix process:

Example 1 : add a byte prefix, the character is "", and the corresponding ASCII decimal number is 040.

1. Scan "**enter / exit programming mode**" barcode.
2. Scan "**configuration the 1st prefix**" barcode.
3. Scan digital barcodes "0", "4", "0"
4. Scan "**enter / exit programming mode**" barcode.

Add suffix process:

Example 2 : add a suffix of byte, the character is ")", and the corresponding ASCII decimal number is 041.

1. Scan "enter / exit programming mode" to put the device into programming mode.
2. Scan "configuration suffix 1st byte".
3. Scan bytecode values "0", "4", "1" in turn.
4. Scan "enter / exit programming mode".

Add multiple byte prefix:

Example 3, add multiple byte prefixes

1. Scan "enter / exit programming mode" to put the device into programming mode.
2. Scan "configuration prefix 1st byte".

3. Scan the first byte code value in turn.
4. Scan "configuration prefix 2nd byte".
5. Scan the second byte code value in turn.
6. Repeat steps 4 and 5
7. Scan "enter / exit programming mode".

Add multiple byte suffix:

Similar to adding multiple prefixes.

Clear all prefixes:

Scan the clear all prefixes barcode.

Clear all suffixes:

Scan the clear all prefixes barcode.



FFFFFF

enter / exit programming mode



69BF60

configuration 1st prefix



69CF60

Configuration 2nd prefix



69DF60

configuration 3rd prefix



69EF60

configuration 4th prefix



69FF60

configuration 5th prefix



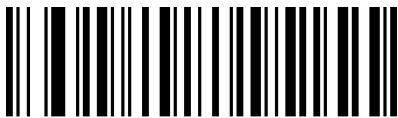
6A6F60

configuration 6th prefix



6A7F60

configuration 7th prefix



6A8F60

configuration 8th prefix



6A9F60

configuration 9th prefix



6AAF60

configuration 10th prefix



FFFFEB

Clean all prefix



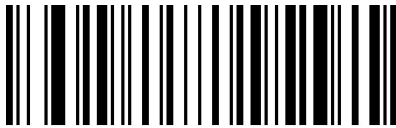
6ABF60

configuration 1st suffix



6ACF60

configuration 2nd suffix



6ADF60

configuration 3rd suffix



6AEF60

Configuration the 4th suffix



6AFF60

Configuration the 5th suffix



6B7F60

configuration 6th suffix



6B7F60

configuration the 7th suffix



6B8F60

configuration the 8th suffix



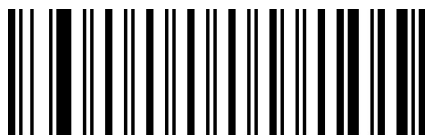
6B9F60

Configuration the 9th suffix



6BAF60

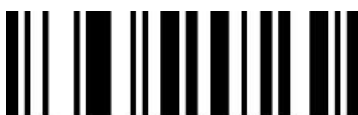
configuration the 10th suffix



FFFFE A

clear all suffix

Digital Barcodes (decimal)



0



1



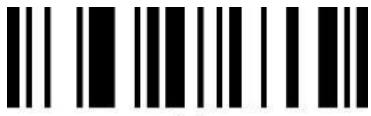
2



3



4



5



6



7



8



9

5.7 Attached: ASCII code table

Decimal	Character	Decimal	Character	Decimal	Character	Decimal	Character
000	NUL	032	SP	064	@	096	'
001	SOH	033	!	065	A	097	a
002	STX	034	"	066	B	098	b
003	ETX	035	#	067	C	099	c
004	EOT	036	\$	068	D	100	d
005	ENQ	037	%	069	E	101	e
006	ACK	038	&	070	F	102	f
007	BEL	039	`	071	G	103	g
008	BS	040	(	072	H	104	h
009	HT	041	)	073	I	105	i
010	LF	042	*	074	J	106	j
011	VT	043	+	075	K	107	k
012	FF	044	,	076	L	108	l
013	CR	045	-	077	M	109	m
014	SOH	046	.	078	N	110	n
015	SI	047	/	079	O	111	o
016	DLE	048	0	080	P	112	p
017	DC1	049	1	081	Q	113	q
018	DC2	050	2	082	R	114	r

019	DC3	051	3	083	S	115	s
020	DC4	052	4	084	T	116	t
021	NAK	053	5	085	U	117	u
022	SYN	054	6	086	V	118	v
023	ETB	055	7	087	W	119	w
024	CAN	056	8	088	X	120	x
025	EM	057	9	089	Y	121	y
026	SUB	058	:	090	Z	122	z
027	ESC	059	;	091	[	123	{
028	FS	060	<	092	\	124	|
029	GS	061	=	093	]	125	}
030	RS	062	>	094	^	126	~
031	US	063	?	095	_	127	DEL

5.8 ASCII extended characters (cp-1252 encoding)

Decimal	Character	Decimal	Character	Decimal	Character	Decimal	Character
128	€	160		192	À	224	à
129		161	ı	193	Á	225	á
130	,	162	¢	194	Â	226	â
131	f	163	£	195	Ã	227	ã
132	„	164	¤	196	Ä	228	ä
133	…	165	¥	197	Å	229	å
134	†	166	¦	198	Æ	230	æ
135	‡	167	§	199	Ç	231	ç
136	^	168	¨	200	È	232	è
137	‰	169	©	201	É	233	é
138	Š	170	ª	202	Ê	234	ê
139	‹	171	«	203	Ë	235	ë
140	Œ	172	¬	204	Ì	236	ì
141		173		205	Í	237	í
142	Ž	174	®	206	Î	238	î
143		175	¯	207	Ï	239	ï
144		176	°	208	Ð	240	ð
145	'	177	±	209	Ñ	241	ñ
146	'	178	²	210	Ò	242	ò

147	"	179	³	211	Ó	243	ó
148	"	180	´	212	Ô	244	ô
149	·	181	μ	213	Õ	245	õ
150	–	182	¶	214	Ö	246	ö
151	—	183	·	215	×	247	÷
152	~	184	¸	216	Ø	248	ø
153	™	185	¹	217	Ù	249	ù
154	š	186	º	218	Ú	250	ú
155	›	187	»	219	Û	251	û
156	œ	188	¼	220	Ü	252	ü
157		189	½	221	Ý	253	ý
158	ž	190	¾	222	Þ	254	þ
159	ÿ	191	¿	223	ß	255	ÿ