
User Guide

V2. 2

About this manual

V1.0.5

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

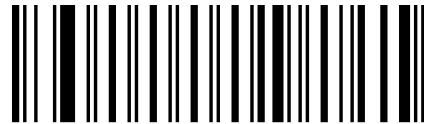
This user manual includes Symbolologies settings, function settings (lighting, keyboard layout, factory default, etc.) and interface settings. If you need to change the function you need, scan the configuration according to the configuration code below.

1.2 Recall Default



DEFAULT

Recall Default



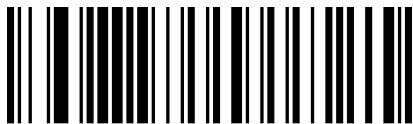
FFFF6A

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

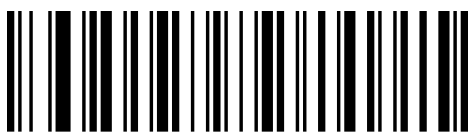
USB COM

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)



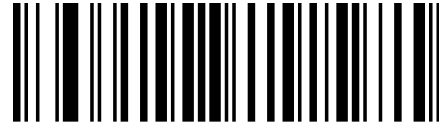
TRIGPRE

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

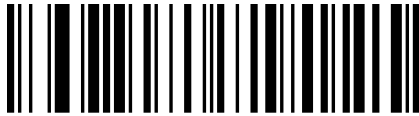


B67A64

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



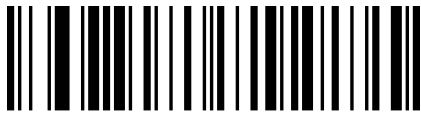
7EFD63

150ms



7EFD64

200ms



7EFD65

250ms



7EFD66

300ms

2.3 Enable/Disable Symbolologies



FFFEFD

Enable all symbologies



FFFEFC

Disable all symbologies



FFFEFB

Enable all 1D symbologies

Disable all 1D symbologies



FFFEFA



FFFE9

Enable all 2D symbologies



FF8FEF

Disable all 2D symbologies

2.4 QR -Mirror Code



A86761

Enable



A86760

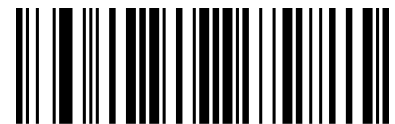
Disable
(default)

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



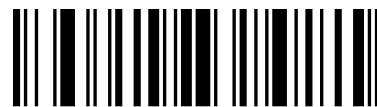
B66771

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

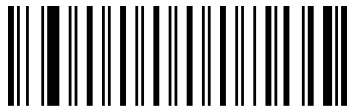


7EA7A1

Short



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



FFFFFFC

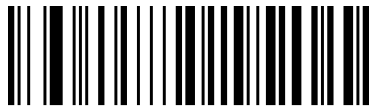
Enable blink test mode



FFFFFFD

Disable blink test mode (default)

2.11 Three level lighting setting



ADC960

Level 1



ADC961

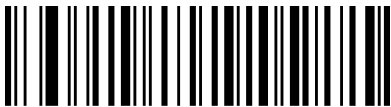
Level 2



ADC962

Level 3

2.12 Code reading timeout



B6AE620

30s



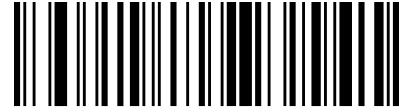
B6AE640

60s



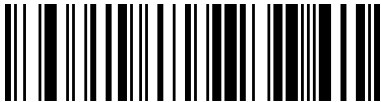
B6AE680

120s



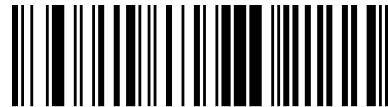
B6AE6120

180s



B6AE6160

240s



B6AE6200

300s

2.13 RS232 interface setting



FFBFFF

2.13.1 Baud rate



7BEA60



7BEA64

4800



7BEA65

9600



7BEA61



7BEA63

2400



7BEA67

19200



7BEA68

38400



7BEA69

57600



7BEA610

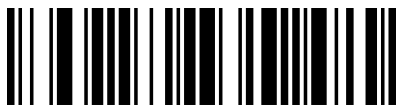
115200

2.13.2 Data bit



7C6790

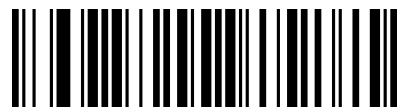
7



7C6791

8

2.13.3 Stop bit



7C67A0

2



7C67A1

2.13.4 Check bit



7C69B0

O



7C69B1

S



7C69B2

E



7C69B3

M



7C69B4

N

3. Output setting

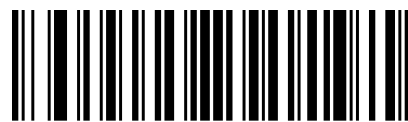
About output setting

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

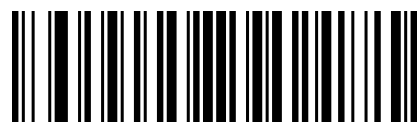


RETURN1
<data><CR>

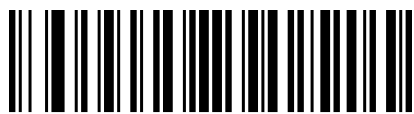


RETURN2
<data><LF>

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



RETURN3



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 Hide barcode data from start / end

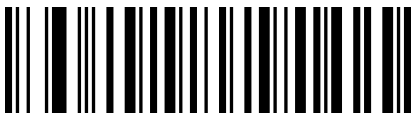
Hide barcode data from start“^3B68E6X”(X is the number of data hiding, 1 represents that hide one data, 2 represents that hide one data, 0 represents normal output. Users can configure it by themselves)



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

3.4 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



3.5 Extra code setting



Disable 5 extra code(default)



678791

Enable all UPC/EAN with extra code



678790

Disable all UPC/EAN with extra code(default)

3.6 Keyboard layout



7C8A60

Belgium



7C8A61

English



7C8A62

French



7C8A63

German



7C8A64

Italian



7C8A65

Spanish



7C8A66

America

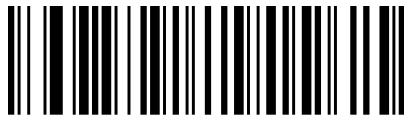


7C8A68

Singapore



7C8A69



7C8A610

Japan



7C8A611

Sierra Leone



7C8A612

Turkey



7C8A613

Russia



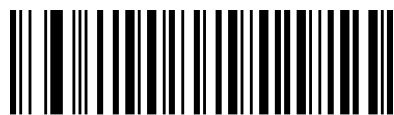
7C8A614

Hungary



7C8A615

Russian (Russia)



A69E616

Thai

3.7 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.



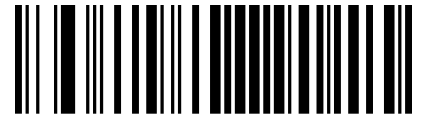
A6A761

Enable virtual keyboard



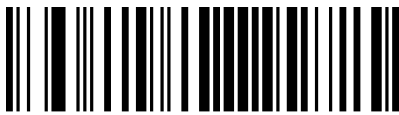
A6A760

Disable virtual keyboard



Enable virtual keyboard

A6A771



A6A770

Disable virtual keyboard zero in front

3.6 Case switch



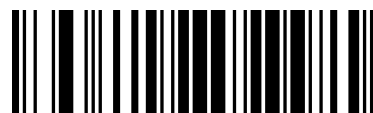
A68861

All lowercase



A68862

All uppercase



A68860

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

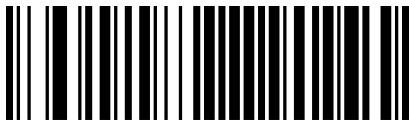


66C761

Enable



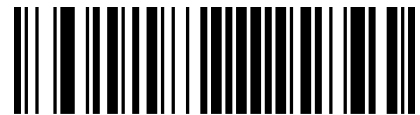
66C760



66C771

Enable inverse Aztec

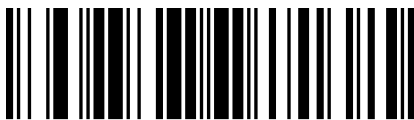
Disable(default)



66C770

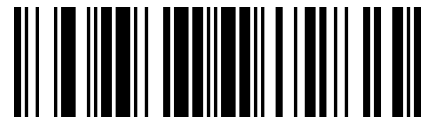
Disable inverse Aztec(default)

4.3 Codabar



6677A1

Enable (default)



6677A0

disable



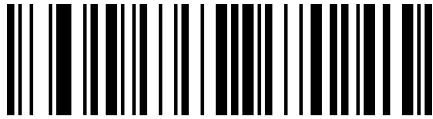
9EF882

Not check (default)



9EF880

Enable check and transmit check bit



6DD7D1

Output start bit and end bit



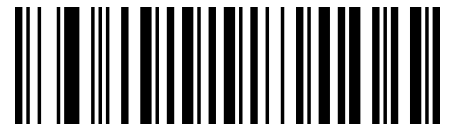
6DD7D0

Not output start bit and end bit (default)



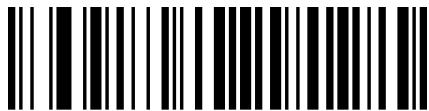
A888C0

Normal barcode



A888C1

4.4 Codablock A



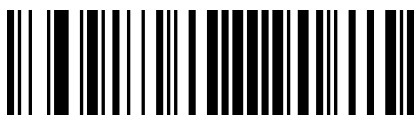
8CA761

Enable



8CA760

4.5 Codablock F



8CA771

Enable



4.6 Code 128



Enable (default)



4.7 Code 11



666791

Enable



666790

Disable(default)

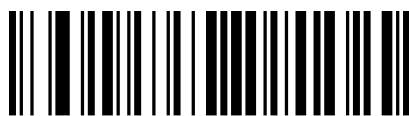


6E67B0

1 check bit (default)



6E67B1



6DD791

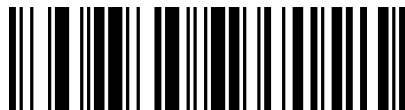
transmit check bit



6DD790

Not transmit check bit (default)

4.8 Code 32



6687B1

Enable



6687B0

Disable(default)

4.9 Code 39



667771

Enable (default)



667770



9F6862

Enable check



9F6860

Not check (default)



9F6861

Enable check and transmit check bit



9F6781

Output strat bit and end bit



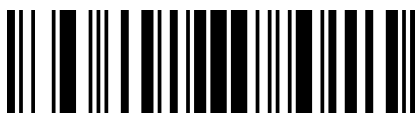
9F6780

Not output strat bit and end bit (default)



A88880

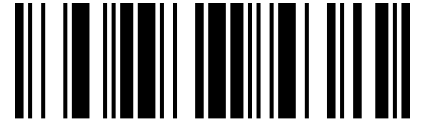
Normal baroce



A88881

Normal and inverse

4.10 Code 93



667781

Enable



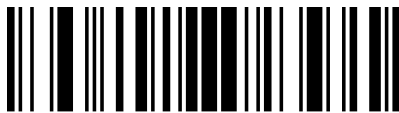
667780

Disable(default)



A88860

Normal baroce



A88861

Normal and inverse

4.11 Composite



A66761

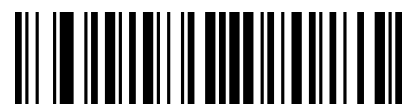
Enable



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)



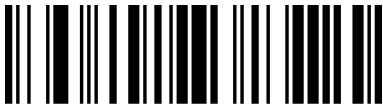
6677C0

Disable



A87860

Normal baroce



A87861

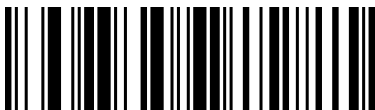
Normal and inverse

4.15 EAN-8



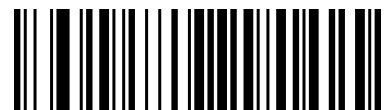
6687A1

Enable(default)



6687A0

Disable



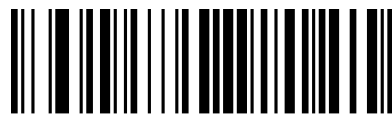
6DF761

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)



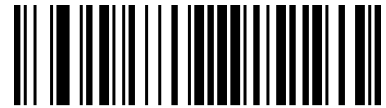
668770

Disable



6DF781

Output EAN-13 check bit (default)



6DF780

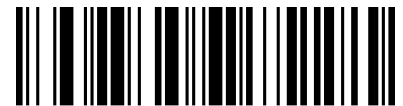
Not output EAN-13 check bit

4.17 Full ASCII Code39



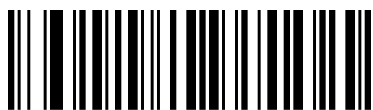
6687D1

Enable



6687D0

4.18 GS1 DataBar Expanded



66A7B1

Enable



66A7B0

4.19 GS1 DataBar Limited



66A7A1

Enable



66A7A0

4.20 GS1 DataBar Omnidirectional



66A791

Enable



66A790

4.21 HANXIN



8D9771

Enable



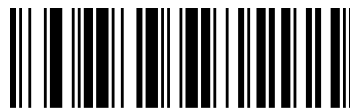
8D9770

4.22 Hong Kong 2 of 5(China post)



6697C1

Enable



6697C0

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

4.23 Interleaved 2 of 5



6677B1

Enable



9EF862



9EF860

Not check (default)



Enable

9EF861

1 bit



A888A0

Normal baroce



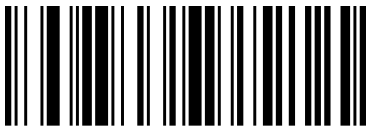
A888A1

4.24 Matrix 2 of 5



6667B1

Enable

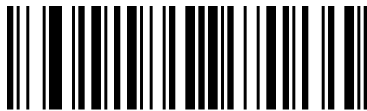


6667B0
Disable(default)



66B7D0

Enable Matrix 2 of 5 check bit



66B7D1
Disable Matrix 2 of 5 check

bit



6DE781

Output Matrix 2 of 5 check bit



Not output Matrix 2 of 5 check bit (default)

4.25 Maxicode



66C7A1

Enable



Di

66C7A0

4.26 Micro PDF417



66A7D1

Enable



66A7D0

Disable(default)

4.27 Micro QR Code



66C7B1

Enable



66C7B0



66C7C1

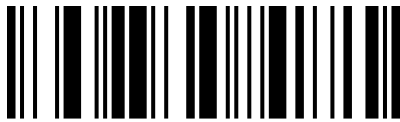
Enable Inverse mico QR



66C7C0

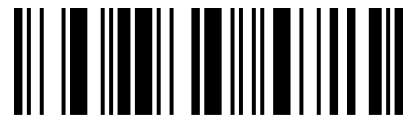
Disable inverse mico QR (default)

4.28 MSI



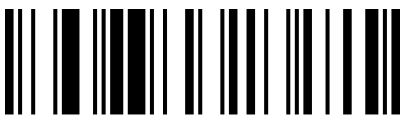
668781

Enable



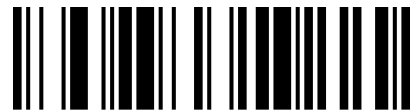
668780

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



66C791

Enable inverse QR

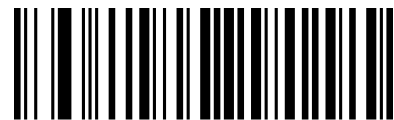


Disable
66C790



A6E760

Enable QR code URL link (default)



Disable
A6E761

4.32 RSS-14



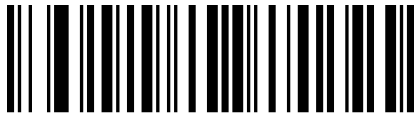
66A791

Enable



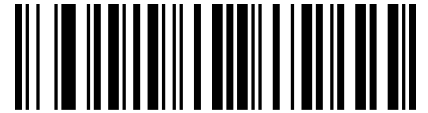
Disable (default)
66A790

4.33 RSS-LIMITED



66A7A1

Enable



66A7A0

Disable(default)
t)

4.34 RSS-EXPANDED



66A7B1

Enable



66A7B0

4.35 Straight 2 of 5 Industrial



667761

Enable



667760

Disable(default)

4.36 Telepen



6667D1

Enable



6667D0

Disable(default)

4.37 Trioptic Code



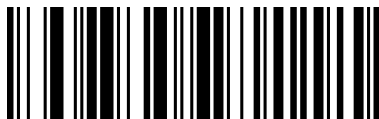
669781

Enable



669780

4.38 UPC-A

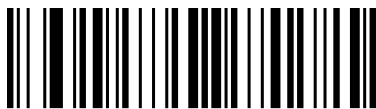


6687C1

Enable (default)



6687C0



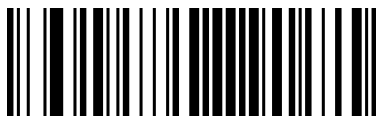
6DB7D1

Transmit UPC-A check bit(default)



6DB7D0

UPC-A not output check bit



6DB771

Output UPC-A digital system character (default)



6DB7A1

Convert UPC-A to EAN-13

Not outp



6DB770

racter



6DB7A0

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

4.39 UPC-E



668761

Enable (default)



668760



6DB7C0

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



6DB7C1
Transmit UPC-E check digit



6DB790

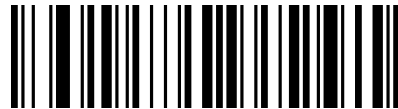
UPC-E do not output header characters (default)



UPC 6DB791 rs



6DB7B1



Disal 6DB7B0 (default)

4.40 UPCE



668761

Enable (default)



668760
Disable

5. Special function configuration (example)

About sprcial 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 :



Output: 12 _ _ _ _ B68E624 _ _ _ _

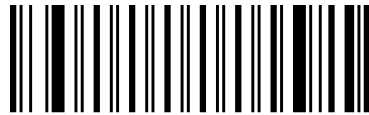
Output all characters :



B68E60

Output: 123456789012345678901234ABCDEF

5.4 Chinese input setting



FFFFE



A67964

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

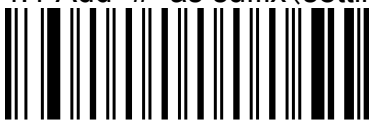


7CC790

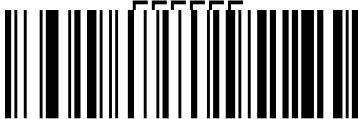


7CC780

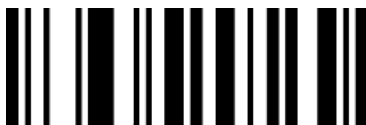
5.4.1 Add “#” as suffix (setting steps)



FFFFE

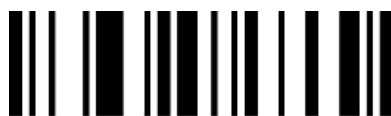


6ABF60



O





5



FFFFFF

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.



FFFFFFF

Enter / exit programming mode



686F60



687F60

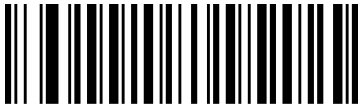
Configure barcode type 1 byte value

configure barcode type 1 length



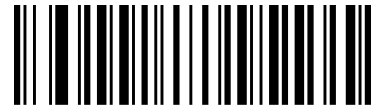
688F60

Configure barcode type 2 length



689F60

Configure barcode type 2 byte value



68AF60

Configure barcode type 3 length



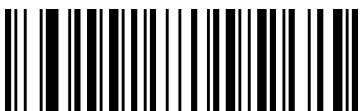
68BF60

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

configure barcode type 6 length



697F60

configure barcode type 6 byte value

Bytecode value (decimal)



0



1



2



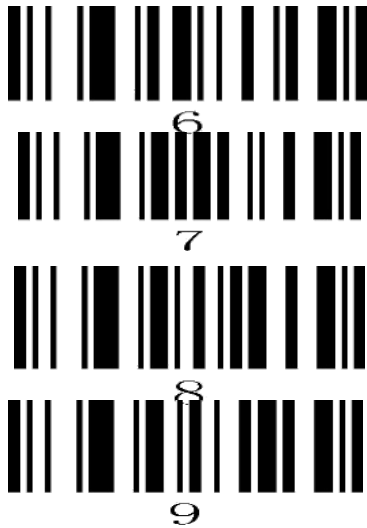
3



4



5



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

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.



FFFFFFF

enter / exit programming mode



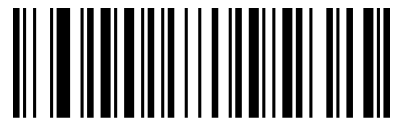
69BF60

configuration prefix 1st byte



69CF60

configuration prefix 2nd byte



69DF60

configuration prefix 3rd byte



69EF60

configuration prefix 4th byte



69FF60

configuration prefix 5th byte



6A6F60

configuration prefix 6th byte



6A7F60

configuration prefix 7th byte



6A8F60

configuration prefix 8th byte



6A9F60

configuration prefix 4th byte



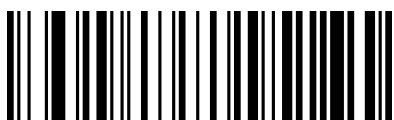
6AAF60

configuration prefix 10th byte



FFFFEB

Clean all prefix



6ABF60

configuration suffix 1st byte



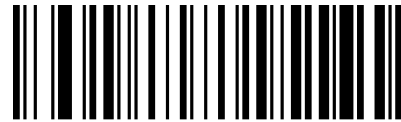
6ACF60

configuration suffix 2nd byte



6ADF60

configuration suffix 3rd byte



6AEF60

configuration suffix 4th byte



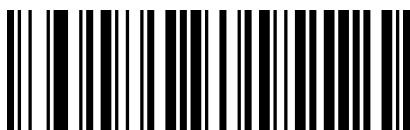
6AFF60

configuration suffix 5th byte



6B7F60

configuration suffix 6th byte



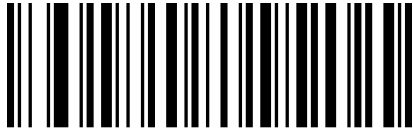
6B7F60

configuration suffix 7th byte



6B8F60

configuration suffix 8th byte



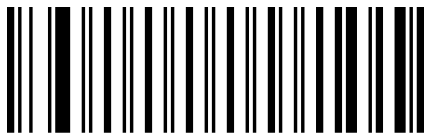
6B9F60

configuration suffix 8th byte



6BAF60

configuration suffix 10th byte



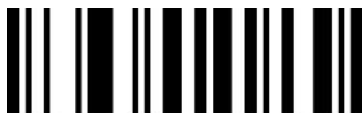
FFFFE A

清除所有后缀clear all suffix

Bytecode value (decimal)



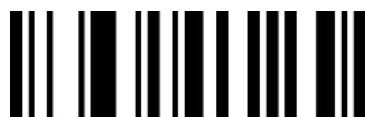
0



1



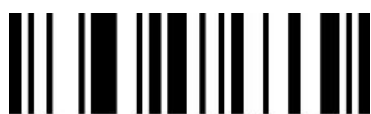
2



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	ø	194	Â	226	â
131	f	163	£	195	Ã	227	ã
132	„	164	α	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	İ	239	ï
144		176	°	208	Đ	240	đ
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	Ɓ	254	ɓ
159	ÿ	191	¿	223	ß	255	ÿ