

Manual

User Guide

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1:Start

About User Manual

The user manual includes symbologies settings, function settings (lighting, keyboard type and factory reset, etc.) and interface settings. If you need to change the function you need, scan the configuration according to the configuration code below. All bands (*) indicate factory default values.

Reset default



000001

(Recall Default)



000095

the Version Number

Interface Mode Initialization

Recognized as a USB keyboard type, scan the "USB Keyboard" barcode.

In the environment where the application software requires a serial port, the USB can be recognized as a USB COM type, and the user needs to install a driver if it is recognized as a USB COM type.



004001

(USB Keyboard)



004002

USB COM

2:Function Mode Settings

This chapter can configure the function mode of the device, including working mode (such as Image reverse, etc.), Aimer setting, lighting configuration, Led indicator setting and speaker setting, etc. You only need to scan the corresponding configuration code as required.

Working Mode



816552

***Manual trigger mode)**



816550

Automatic scanning Mode

There are 15 levels of sensitivity in automatic scan mode, 1 is the highest, 15 is the lowest 49859X, X represents the level (498591-4985915)



498591



498594

Automatic scan mode same barcode interval setting

The same barcode time can be set to 1-127 (minimum is 1, maximum is 127)

When making configuration barcodes, add "^3" characters in front, such as: ^381029X(X means the same barcode interval, 1 means 50ms, 127 means

127*50ms), choose code 128.

81029X, X for (810291-81029127)



All Barcodes Enable/Disable



000102
Enable



000103
Disable



000104
Enable ALL 1D Barcodes



000105
Disable All 1d Barcodes



000106
Enable All 2D Barcodes



000107
Disable All 2D Barcodes

QR mirror



579891
Enable



579890
***Disable**

DATAMATRIX Mirror



580821
Enable



580820
***Disable**

All Mirror



592781
Enable



592780
***Disable**

Image Reverse



498851

Enable Image Reverse



498850

***Normal Image**

Light Setting



499881

***Aimer Enable**



499880

Aimer Disable



499871

***Light Enable**



499870

Light Disable



499760

***Led lighting Normal**



499761

Led lighting Reverse



499762

Led lighting always off



499763

Led lighting always on

Speaker setting



499820

***Speaker on**



499821

Speaker off

Beeper Duration



815850

Normal



815851

Short



814647

2.7KHz



1.6KHz

814646



814645

2.0KHz



814644

2.4KHz



814643

3.1KHz



814642

3.5KHz



814641

4.2KHz



814640

No Beeper

Test Mode

After being configured in test mode, the device automatically triggers decoding every one second.

Blink test mode



814647

*cancel Blink test mode



814646

Sleep Setting

When making the configuration barcode, add "^3" character in front, such as: ^352419X (X means sleep time), choose code 128.



5241910
10s Sleep Time



52419100
100s Sleep Time

Tertiary lighting setup



523690

Level 1



523691

Level 2



523692

Level 3

Code reading timeout setting



4951920

30s



4951940

60s



4951980

120s



49519120

180s



49519160

240s



49519200

300s

RS232 Interface



004000

RS232 Baud Rate



841590

300



841591

600



841593

2400



841594

4800



841595

9600



841597

19200



841598

38400



841599

57600



8415910

115200

Data Bits



Stop Bits



Parity Bits





839642

E



839643

M



839644

N

3: Output Settings

Regarding output settings

This chapter can configure the output of the device, including enter/linefeed, adding prefix/suffix, setting bar code length, removing bar code digits (removing the beginning/end), and multi-country keyboard switching settings, etc. You only need to scan the corresponding configuration as required code.

Enter/linefeed Setting



Add enter



Add CR&LF



Serial output settings



Serial output utf-8



Serial output GBK



Serial output according to barcode content

Remove barcode from
beginning/end
Remove barcode from beginning/end

Remove the number of digits from the bar code "[^]349719X" (X is the number of digits to be removed, the last 1 means to remove one digit, if it is 2, remove two digits, if it is 0, it is not removed normally, and the user can configure it by himself)



Remove 1 digit from barcode

Remove the digit "[^]357719X" from the end of the barcode (X is the number of digits to be removed, the last 1 means to remove one digit, if it is 2, remove two digits, if it is 0, it is not removed normally, and the user can configure it by himself)



Remove 1 digit from the end of the barcode

Barcode length setting

Barcode length can be set from 1-255 (minimum length is 1, maximum length is 255)

It need add "[^]3"characters in front when making a configuration barcode,such as: [^]398119X (X represents the length of the barcode), select code 128



Length 1



length 255

Remove barcode from
beginning/end



981190

Barcode length lock

Additional code settings



987821

Enable two additional codes



987820

*

Disable two additional codes



987831

Enable five additional codes



987830

*

Disable five additional codes



987861

All UPC/EAN codes must have an additional code



987860

Additional code is not required

Keyboard mode output Chinese

The keyboard mode can be output in Chinese. If you need to output in Chinese, please scan the corresponding configuration code as required. (The default state is no Chinese, but other national languages can be input)



598690
*

Default code



598691

Can be used in word , not in excel, txt



598692

Can be used in txt, excel, not in word

Multi-country keyboard Language



837590

Belgium



837591

U.K



837592

France



837593

Germany



837594

Italy



837595

Spain



837596

USA



837598

Singapore



837599

Salvador



8375910

Japan



8375911

Sierra Leone



8375912

Turkey



8375913

Russia



8375914

Hungary



8375915

Russian (Russia)



8375916

Thailand

Virtual Keyboard

You may need to type your characters in the form of ASCII code. In this case, you can configure the corresponding configuration code as required to configure the virtual keyboard.



595891

Enable Virtual Keyboard

d



595890

Disable Virtual Keyboard



595881

Enable Virtual Keyboard Front Zero



595880

Disable Virtual Keyboard Front Zero

Caps Lock



597791

All lowercase



597792

All uppercase



597790

Restore default

4:Symbologies

Symbologies configuration

This chapter can configure the bar code system for the device, 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, Airline 2 of 5(China Post) and Airline 2 of 5 support barcode configurations. You only need to scan the corresponding configuration codes in sequence. (Default is *)

1. Airline 2 of 5



2. Aztec Code



Reverse Colors Aztec Enable



3. Codabar



998851
***Enable**



998850
Disable



610770
***No Check Digit**



610771
Enable Check Digit



610772
Enable and transmit Check Digit

Enable start and End character



922821



922820

***Disable start and End character**



577730

Only Normal color



577731

Both Normal and Reverse color

4. Codablock A



735891

Enable

***Disable**



922821

5. Codablock F



735881

Enable



735880

***Disable**

6. Code 128



998861

***Enable**



998860

Disable



578740

Only Normal color

Both Normal and Reverse color



922821

27. Code



999861
Enable



999860
***Disable**



919840
***One Check Digi**



919841
Two Check Digit



922861
Transmit Check Digit

***No transmit Check Digit**



922821

28. Code



997841

Enable



997840

***Disable**

9. Code 39



998881

***Enable**



998880

Disable



609792

Enable Check Digit

***Disable Check Digit**



922821



609791

Enable and Transmit Check Digit



609871

Enable Start and End Character



609870

***Disable Start and End Character**



577770

Only Normal color



577771

Both Norml and Reverse Color



998871

Enable



998870

***Disable**



577790

Only Normal color



577791

Both Normal and Reverse Color

10. Code93

11.Composite



599891

Enable



599890

***Disable**

12. Data Matrix Code



994861

***Enable**



994860

Disable



994871

***Enable Reverse DM code**



994870

Disable Reverse DM code

13.DOT_CODE



580881

Enable



599890

***Disable**

14. EAN/UPC



998831

***Enable**



998830

Disable



578790

Only Normal color

Both Normal and Reverse Color



578791

34. EAN-8



997851

***Enable**



997850

Disable



920891

***Transmit EAN-8 Check Digit**



920890

No Transmit EAN-8 Check Digit



924871

Enable EAN-8 to EAN-13

***Disable EAN -8 to EAN-13**



578791

35. EAN-13



997881

***Enable**



997880

Disable



920871

***Transmit EAN-13 Check Digit**



920870

No Transmit EAN-13 Check Digit

17. Full ASCII Code39



997821

Enable



997820

***Disable**

18. GS1 DataBar Expanded



995841

Enable



995840

***Disable**

19. GS1 DataBar Limited



995851

Enable



995850

***Disable**

20. GS1 DataBar Omnidirectional



995861

Enable



997820

***Disable**

21. HANXIN



726881

Enable



726880

***Disable**

22. Hong Kong 2 of 5(China post)



996831

Enable



996830

***Disable**

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

23. Interleaved 2 of 5



998841

Enable



997820

***Disable**



610792

Enable Check Digit



610790

***Disable Check Digit**



610791

Enable and Transmit Check Digit



577750

Only Normal Color

Both Normal and Reverse Color



577751

24. Matrix 2 of 5



999841
Enable



999840
*Disable



994820
Enable Matrix 2 of 5 Check Digit



994821
Disable Matrix 2 of 5 Check Digit



921871
Transmit Matrix 2 of 5 Check Digit



921870
*No Transmit Matrix 2 of 5 Check
Digit

25. Maxicode



993851
Enable

*Disable



577751

26. MicroPDF417



995821

Enable



995820

***Disable**

27. Micro QR Code



993841

Enable



993840

***Disable**

Enable Micro QR Code Reverse



993831

*** Disable Micro QR Reverse**



993830

28. MSI



997871

Enable



997870

***Disable**

29. PDF417



999891

Enable



999890

***Disable**



572790

Only Normal Color

Reverse Color



572791

30. Pharmacode



530841
Enable



530840
***Disable**

31. QR Code



993871
***Enable**



993870
Disable



993861
Enable Reverse QR



993860

***Disable Reverse QR**



591890

***Enable Website QR code**



591891

Disable Website QR code

32.RSS-14



995861

Enable



995860

***Disable**

33.RSS-LIMITED



995851

Enable



995850

***Disable**

34. RSS-EXPANDED



995841

Enable



995840

***Disable**

35. Straight 2 of 5 Industrial



998891

Enable



998890

***Disable**

36. Telepen



999821

Enable



999820

***Disable**

37. Trioptic Code



996871

Enable



996870

***Disable**

38. UPC-A



997831

***Enable**



997830

Disable



924821

***UPC-A Transmit Check Digit**



924820

UPC-A No Transmit Check Digit



924881

*** Transmit UPC-A Number System Characters**



924880

No Transmit UPC-A Number System Characters



924851

Enable UPC-A to EAN-13



924850

***Disable UPC-A to EAN-13**

39. UPC-E



997891

***Enable**



997830

Disable



924830

***No Transmit UPC-E
Check Digit**



924831

Transmit UPC-E Check Digit



924860

***No Transmit UPC-E start Character**



924861

Transmit UPC-E Start Character



924841

Extend UPC-E to 12 Digits



924840

***Disable Extend UPC-E to 12 Digits**

40. UPCE



997891

***Enable**



997830

Disable

5: Special Function Configuration (Example)

On Special Function Configuration

This chapter lists some configuration examples and describes the configuration methods of special functions to help users get familiar with the use of the product. You only need to scan the corresponding configuration codes in sequence to complete the configuration of special functions.

Only Set Prefix and Suffix to Interleaved 2 of 5 Barcodes

Prefix



595821

Enable

Suffix



833821

Enable



595820

Disable



833820

Disable

Scan VAT Information Code:

Scan the following configuration codes in turns



598692

Can be used in notes, excel, cannot be used in word



593861

Enable



593860

Disable

No Transmit the First 10 Characters

If the bar code to be scanned is (1234567890ABCDEFGHIJKLMN), scan the following configuration codes in sequence:



Output: ABCDEFGHIJKLMN

Display all information:



Output: 1234567890ABCDEFGHIJKLMN

Web Page Chinese Input Settings

Scan from top to bottom:



Utf-8 code (can be used in word, cannot be used in notes, excel)



833860

Cancel Enter



833870

Cancel Line

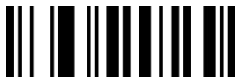
The following is configuration added # configuration)



000000



954090



0



3



5



000000

Programming Mode

Barcode Length Locking Configuration (Length Locking Supports Up to 6 Barcode Types)

Add a length lock configuration process for a single barcode type:

Example 1

Lock the CODE 128 barcode length to 10, and the CODE 128 barcode type byte value is 083 by looking up the barcode type table.

1. Scan "Enter/Exit Programming Mode" to enter the device to programming mode..
2. Scan "Configure barcode type 1 length".
3. Scan the bytecode values "0", "1", and "0" in sequence.
4. Scan "Configure Barcode Type 1 Byte Value".
5. Scan the bytecode values "0", "8", and "3" in sequence.
6. Scan to enter/exit programming mode.

Add length lock for multiple barcode types:

Example 2

1. Scan "Enter/Exit Programming Mode" to enter the device to programming mode.
2. Scan "Configure barcode type 1 length".
3. Scan the bytecode values in turn.
4. Scan "Configure Barcode Type 1 Byte Value".
5. Scan the bytecode values in turn.
6. Scan "Configure Barcode Type 2 Length".
7. Scan the bytecode values in turn.
8. Scan "Configure barcode type 2-byte value".
9. Scan the bytecode values in turn.
10. Scan the bytecode values in turn.



000000

Enter/Exit Programming Mode



979090

Configure Barcode Type 1 Length



978090

Configure Barcode Type 1 Byte Value



977090

Configure Barcode Type 2 Length



Configure Barcode Type 2 Byte Value



Configure Barcode Type 3 Length



Configure Barcode Type 3 Byte Value



Configure Barcode Type 4 Length



Configure Barcode Type 4 Byte Value



Configure Barcode Type 5 Length



Configure Barcode Type 5 Byte Value



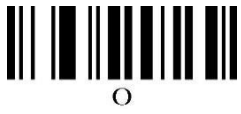
Configure Barcode Type 6 Length



968090

Configure Barcode Type 6 Byte Value

Data code Table (decimal system)



Bacode Type List

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

To add Prefix /Suffix (support Max ten bites individually)

Set prefix process:

Example1, add prefix a byte with the character "(" , corresponding to the ASCII decimal number 040.)

1. Scan "Enter/Exit Programming Mode" to put the device into programming mode.
2. Scan "Configure prefix 1st byte".
3. Scan the byte code values "0", "4" and "0" in turn.
4. Scan "Enter/Exit Programming Mode".

Set Suffix process:

Example 2, add suffix a byte with the character ")", corresponding to the ASCII decimal number 041.

1. Scan "Enter/Exit Programming Mode" to put the device into programming mode.
2. Scan "Configuration suffix 1st byte".
3. Scan the byte code values "0", "4" and "1" in turn.
4. Scan "Enter/Exit Programming Mode".

Set multiple byte prefixes:

Example 3, add multiple byte prefixes

1. Scan "Enter/Exit Programming Mode" to put the device into programming mode.
2. Scan "Configure prefix 1st byte".
3. Scan the 1st byte code value in sequence.
4. Scan "Configure prefix 2nd byte".
5. Scan the 2nd byte code value in sequence.
6. Repeat 4,5, steps
7. Scan "Enter/Exit Programming Mode".

Add multiple byte suffix:

Similar to add multiple prefix

Clear all prefix:

Scan the "Clear all prefixes" barcode

Clear all suffix:

Scan the "Clear all prefixes" barcode.



000000

Enter/exit program mode



963090

Configure 2nd bytes

To add Prefix /Suffix (support Max ten bites individually)



964090

Configure Prefix 1st bytes



963090

Configure 2nd bytes



962090

Configure Prefix 3rd bytes



961090

Configure Prefix 4th bytes



960090

Configure prefix 5th bytes



959090

Configure Prefix 6th Bytes



958090

Configure Prefix 7th bytes



957090

Configure Prefix 8th bytes



956090

Configure Prefix 9th bytes



963090

Configure Prefix 2rd bytes



000014

Clear All Prefix



954090

Configure Suffix 1st bytes



953090

Configure Suffix 2nd bytes



952090

Configure Suffix 3rd bytes



951090

Configure Suffix 4th bytes



950090

Configure Suffix 5th bytes



000014

Configure Suffix 6th bytes



948090

Configure Suffix 7th bytes



947090

Configure Suffix 8th bytes



946090

Configure Suffix 9th bytes



945090

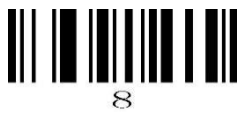
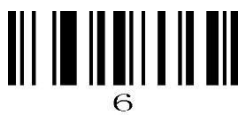
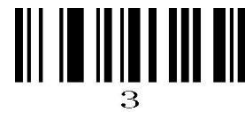
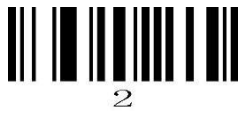
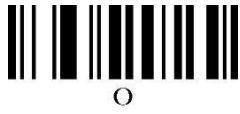
Configure Suffix 10th bytes



000015

Clear all Suffix

Data Code Table (decimal system)



ASCII Table

Dec	Char	Dec	Char	Dec	Char	Dec	Char
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

ASCII Extend Character (CP-1252 code)

Dec	Char	Dec	Char	Dec	Char	Dec	Char
128	€	160		192	À	224	à
129		161	ì	193	Á	225	á
130	,	162	ç	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	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	Þ	254	þ
159	ÿ	191	¿	223	ß	255	ÿ