User Manual

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1:Instruction

About user guide

This user manual included code setting, function code setting and the interface setting , if you need to change the setting , scan the below code ,Factory default settings are marked with an asterisk“*”in this manual.

Factory default

FFFFFE

Factory default

FFFF68

Read the Version Number

Interface initialization

Identify the type of USB keyboard and scan the "USB keyboard" barcode.

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

FFBFFE

USB Keyboard

FFBFFD

USB COM

2: Function mode setting

About the function mode setting

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 Beeper setting etc.. You only need to scan the corresponding configuration codes as required.

Working mode

7E9AA2

Manual trigger mode

7E9AA0

Auto Scanning mode

The sensitivity of automatic scanning mode is 15 levels, 1 is the highest and 15 is the lowest.
B67A6X，X represent the sensitivity grade（B67A61-B67A615）

B67A61

B67A62

B67A63

B67A64

B67A65

B67A68

B67A610

B67A613

B67A615

Same Bar Code Interval Time Settings in Auto Scanning Mode.50ms

7EFD61

50s

7EFD62

100ms

7EFD63

150s

7EFD64

200ms

7EFD65
250ms

7EFD66
300ms

Symbologies Enable/Disable

FFFEFD
Enable all codes

FFFEFC
Disable all code

FFFEFB
Enable all 1D codes

FFFEFA
Disable all 1D code

FFFEF9
Enable all 2D code

FFFEF8
Disable all 2D code

Image Reverse

Enable Black & white reverse

***Disable Black & White reverse**

LED Settings

***Enable Aimer**

Disable Aimer

***Enable Light**

Disable Light

***Led Normal**

Led Reverse

B66892

Keep Led Off

B66893

Keep Led on

Beeper settings

B667D0

***Beeper on**

B667D1

Beeper off

Beeper Length of time

7EA7A0

Normal

7EA7A1

Short

7EB9B7

2.7KHz

7EB9B6

1.6KHz

7EB9B5

2.0KHz

7EB9B4

2.4KHz

7EB9B3

3.1KHz

7EB9B2

3.5KHz

7EB9B11

4.2KHz

7EB9B0

OFF

Sleep time setting

ADBE610

10s

ADBE6100

100s

Multi-level illumination setting

ADC960

Level1

ADC961

Level 2

ADC962

Leve 3

Read code time out setting

B6AE620

30s

B6AE640

60s

B6AE680

120s

B6AE6120

180s

B6AE6160

240s

B6AE6200

300s

Interface setting

FFBFFF

RS232

RS232 Baud rate

7BEA60

300

7BEA61

600

7BEA63

2400

7BEA64

4800

7BEA65

***9600**

7BEA67

19200

7BEA68

38400

7BEA69

57600

7BEA610

115200

Digit bit

7C6790

7 bits

7C6791

8 bits

Stop bit

7C67A0

2 bits

7C67A1

1 bit

Parity setting

7C69B0

O

7C69B1

S

7C69B2

E

7C69B3

M

7C69B4

N

3:Output setting

About out put Configuration

This chapter can configure the output of the device, including CR/LF, adding pre/suffix, setting the length of the barcode, removing the number of barcode digits (removal at the beginning/end) and more
You only need to scan the corresponding configuration codes in sequence according to the requirements.

CR/LF Setting

7CC791

Add CR

7CC790

Cancel CR

7CC781

Add LF

7CC780

Cancel LF

Remove code from beginning/Ending

B69760

Remove barcode from beginning

B69761

Remove barcode from Ending

B68E61

REMOVE 1

Set length of barcode

67EE61

Length 1

67EE6255

Length 255

67FE60

Barcode Length Lock

Additional code setting

6787D1

Enable 2 bits Additional code

6787D0

***Disable 2bits additional code**

6787C1

Enable 5bits Additional code

6787C0

***Disable 5bits Additional code**

678791

All UPC/EAN have additional code

678790

***without additional code**

Keyboard language

7C8A60
Belgium

7C8A61
English

7C8A62
France

7C8A63
Germany

7C8A64
Italy

7C8A65
Spain

7C8A66
U.S.A

7C8A68
Singapore

7C8A69

Salvador

7C8A610

Japan

7C8A611

Sierra Leone

7C8A612

Turkey

7C8A613

Russia

7C8A614

Hungary

7C8A615

Russian (Russia)

A69E616

Thailand

Simulation of the keyboard board

You may need to type the character though the ASCII code ,pls can the below setting code accordingly

A6A761

Enable Simulation of keyboard

A6A760

Disable Simulation of keyboard

A6A771

0 before Analog keyboard on

A6A770

0 before Analog keyboard off

Case Convertion

A68861

Convert to all lower case

A68862

Convert to all upper case

A68860

4:Bar code configuration

This chapter can be used for bar code configuration, UPC/EAN, included Codebar code, Code39, Full ASCII Code39, Interleaved 2of 5, Code93, UPC-A, GS1DataBar Omnidirectional, GS1DataBar Expanded, PDF417, QR Code, Hong Kong 2of 5(China post) and Airline 2of 5 support bar code configuration, You just need to scan the configuration code as required. (default *)

Barcode Setting

1. Airline 2 of 5

6667A1

Enable

6667A0

***Disable**

2. Aztec Code

66C761

Enable

66C760

***Disable**

3. Codaba

6677A1

***Enable**

6677A0

Disable

4. Codablock A

8CA761

Enable

8CA760

***Disable**

5. Codablock F

8CA771
Enable

8CA770
***Disable**

6. Code 128

667791
***Enable**

667790
Disable

7. Code 11

666791
Enable

666790
***Disable**

8. Code 32

6687B1

Enable

6687B0

***Disable**

9. Code 39

667771

***Enable**

667770

Disable

10. Code93

667781

Enable

667780

***Disable**

11.Composite

A66761

Enable

A66760

***Disable**

12. Data Matrix Code

66B791

***Enable**

66B790

Disable

13. EAN/UPC

6677C1

***Enable**

6677C0

Disable

14. EAN-8

6687A1

***Enable**

6687A0

Disable

6DF761

***output EAN-8 parity bit**

6DF760

Not output EAN-8 parity bit

6DB781

Enable EAN-8 converted EAN-13

6DB780

***Disable EAN-8 converted EAN-13**

15. EAN-13

668771

***Enable**

668770

Disable

6DF781

***output EAN-13 parity bit**

6DF780

Not output EAN-13 parity bit

16. Full ASCII Code39

6687D1

Enable

6687D0

17. GS1 DataBar Expanded

66A7B1

Enable

66A7B0

***Disable**

18. GS1 DataBar Limited

66A7A1

Enable

66A7A0

***Disable**

19. GS1 DataBar Omnidirectional

66A791

Enable

66A790

***Disable**

20. HANXIN

8D9771

Enable

8D9770

***Disable**

21. Hong Kong 2 of 5(China post)

6697C1

Enable

6697C0

***Disable**

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

22. Interleaved 2 of 5

6677B1

***Enable**

6677B0

Disable

23. Matrix 2 of 5

6667B1

Enable

6667B0

***Disable**

24. Maxicode

66C7A1

Enable

66C7A0

***Disable**

25. MicroPDF417

66A7D1

Enable

66A7D0

***Disable**

26. Micro QR Code

66C7B1

Enable

66C7B0

***Disable**

27. MSI

668781
Enable

668780
***Disable**

28. PDF417

666761
***Enable**

666760
Disable

29. Pharmacode

ACF7B1
Enable

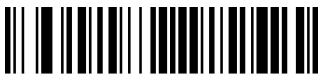
***Disable**

ACF7B0

30. QR Code

66C781

***Enable**



66C780
Disable

A6E760

***Enable URL QR code**

A6E761

QR 碼 Disable Web QR code

31. Straight 2 of 5 Industrial

667761

Enable

667760

***Disable**

32. Telepen

6667D1

Enable

6667D0

***Disable**

33. Trioptic Code

669781

Enable

669780

***Disable**

34. UPC-A

6687C1

***Enable**

6687C0

Disable

6DB7D1

***output UPC-A parity bit**

6DB7D0

Not output UPC-A parity bit

6DB771

***Output UPC-A Digital System Characters**

6DB770

Not output UPC-A Digital System Characters

6DB7A1

UPC-A converted to EAN-13

6DB7A0

***UPC-A not converted to EAN-13**

35. UPC-E

668761

***Enable**

668760

Disable

6DB7C0

***Not output UPC-E parity bit**

6DB7C1

Output UPC-E parity bit

6DB790

***UPC-E not output the front characters**

6DB791

UPC-E output the front characters

6DB7B1

Enable UPC-E extended to 12 bits

6DB7B0

***Disable UPC-E extended 12 bits**

5: Special function setting

About special function setting

This chapter enumerates some configuration examples of equipment use, specifies the configuration method of special functions, which is convenient for users to operate the scanner. The configuration of special functions could be setting by scanning the corresponding configuration barcodes in turn according to the instruction.

Interleaved 2 of 5 suffix setting

A6A7D1

Enable

A6A7D0

Disable

Invoice information barcode setting

Scan the following configuration barcodes in turn：

A67962

Word For MS Notebook and Excel, not for MS Word

A6C791

Enable

A6C790

Disable

Configuration only outputs the first 24 characters

For example barcode 986698654666777969696123 only show 96969688

Scan the following configuration barcodes in turn：

B69781

B68E624

Display all information (need to configure Chinese output configuration)

A67960

Default

A67962

For Notebook and Excel, not for Word

A67961

For word，not for notebook and excel

web input Chinese setting

Scan the following code one by one：

FFFFFE

Factory default

A67964

Utf-8 （for word not for notebook and excel）

7CC790

Cancel CR

7CC780

Cancel LF

Add suffix (Scan the following two bar codes and find the corresponding characters and numbers in turn)

FFFFFF

6ABF60

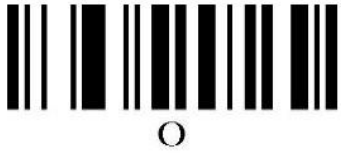
Appendix：ASCII code table

Hexadecimal	ASCII	Hexadecimal	ASCII	Hexadecimal	ASCII	Hexadecimal	ASCII
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

Appendix：ASCII code extension character (CP-1252 code)

Hexadecimal	ASCII	Hexadecimal	ASCII	Hexadecimal	ASCII	Hexadecimal	ASCII
128	€	160		192	À	224	à
129		161	¡	193	Á	225	á
130	‚	162	¢	194	Â	226	â
131	ƒ	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	ˆ	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

Byte codes list(decimal)



8

9