

Bar code Scanner Reference Guide

2.4G+Bluetooth(V3.1)

Contents

1. Enter&Exit Setting	3
1.1 Enter setting mode.....	3
1.2 Exit setting mode	3
2. Version Display	3
3. Default Settings	3
3.1 Restore default settings	3
3.2 Set to default mode.....	3
4. Language Settings	4
4.1 International keyboard.....	4
4.2 General settings	4
5. Encoding Settings	8
5.1 Enter GBK code.....	8
5.2 Enter UTF encoding	8
5.3 Compulsory pairing with Dongle.....	8
6. Sound Related Settings.....	8
6.1 Mute.....	8
6.2 Low volume	8
6.3 Medium volume	8
6.4 High volume	9
7. Buzzer Setting.....	9
7.1 Buzzer frequency 2K.....	9
7.2 Buzzer frequency 2.7K.....	9
8. Transmission Mode	9
8.1 Enter normal mode	9
8.2 Enter inventory mode	9
8.3 Data upload.....	9
8.4 Display total storage entries.....	10
8.5 Clear inventory data	10
9. Sleep Time Setting.....	10
10. Display Battery	11
11. Sound Settings.....	11
11.1 Scanning head sound	11
11.2 MCU sound.....	11
12. Vibration Setting (customized).....	12
12.1 Turn on	12

12.2 Turn off.....	12
13. Transfer Settings.....	12
13.1 Fast.....	12
13.2 Medium.....	12
13.3 Low.....	12
13.4 Ultra-low.....	12
14. Transmission Mode Settings.....	13
14.1 2.4G mode.....	13
14.2 Virtual Bluetooth mode.....	13
14.3 Bluetooth HID mode.....	13
14.4 Bluetooth SPP mode.....	13
14.5 Bluetooth BLE mode.....	13
14.6 Android input mode.....	13
14.7 Virtual serial port mode.....	13
15. Bluetooth Name Setting.....	14
16. HID Setting.....	14
16.1 Allow long press button to enter HID search.....	14
16.2 Prohibit long press button to enter HID search.....	14
16.3 HID Keyboard pop up/hide.....	15
16.4 Disable double-click to pop up/hide HID keyboard.....	15
16.5 Enable double click to pop up/hide HID keyboard.....	15
17. GS Conversion Character Settings.....	15
17.1 Set GS conversion character.....	15
17.2 Turn off GS character conversion.....	15
18. Prefix and Suffix Settings.....	15
19. Hide Barcode.....	16
19.1 Hide the front of the barcode.....	16
19.2 Hide the back of the barcode.....	16
20. Add Function Keys.....	17
20.1 Add a carriage return at the end.....	17
20.2 Add a newline at the end.....	17
20.3 Add carriage return and line feed at the end.....	17
20.4 Add Tab at the end.....	17
20.5 Disable add at the end.....	17
21. Conversion to Uppercase or Lowercase.....	18
21.1 Cast to lowercase.....	18
21.2 Cast to uppercase.....	18
21.3 Convert between uppercase and lowercase.....	18
21.4 Disable convert case.....	18
22. Prefix and Suffix Setting.....	19
23. Control character table.....	21

1. Enter&Exit Setting

1.1 Enter setting mode



1.2 Exit setting mode



2. Version Display

Display version information



3. Default Settings

3.1 Restore default settings



3.2 Set to default mode



4. Language Settings

4.1 International keyboard



4.2 General settings

American English (Chinese)



German



French



Spanish



Italian



Japanese



Belgian French



Portuguese



British English



German IOS keyboard: (Apple system German keyboard)



Brazilian Portuguese



Russian



Czech



Italian 142



Turkey Q



Turkey F



Sweden/Finland



Mexican Spanish



Danish



Norwegian (written Norwegian):



Croatian



Swiss German



Swiss-French



Dutch



Hungarian



Polish



Canadian French



Argentina (Latin American)



Slovak



5. Encoding Settings

5.1 Enter GBK code



5.2 Enter UTF encoding



5.3 Compulsory pairing with Dongle



6. Sound Related Settings

6.1 Mute



6.2 Low volume



6.3 Medium volume



6.4 High volume



7. Buzzer Setting

7.1 Buzzer frequency 2K



7.2 Buzzer frequency 2.7K



8. Transmission Mode

8.1 Enter normal mode



8.2 Enter inventory mode



8.3 Data upload



8.4 Display total storage entries



8.5 Clear inventory data



9. Sleep Time Setting

30 seconds



1 minute



2 minutes



5 minutes



10 minutes



30 minutes



Never



Sleep now



10. Display Battery

Display battery



11. Sound Settings

11.1 Scanning head sound



11.2 MCU sound



12. Vibration Setting (customized)

12.1 Turn on



12.2 Turn off



13. Transfer Settings

13.1 Fast



13.2 Medium



13.3 Low



13.4 Ultra-low



14. Transmission Mode Settings

14.1 2.4G mode



14.2 Virtual Bluetooth mode



14.3 Bluetooth HID mode



14.4 Bluetooth SPP mode



14.5 Bluetooth BLE mode



14.6 Android input mode



14.7 Virtual serial port mode



15. Bluetooth Name Setting

Set Bluetooth name



Read Bluetooth name



The method of setting the Bluetooth name:

Scan the Bluetooth name barcode first, and then scan a barcode, this barcode will be set as the Bluetooth name.

※ Note

- a) The name can only be set up to 16 bytes. If the name bar code exceeds 16 bytes, the scanner will only take the first 16 bytes as the Bluetooth name.
- b) The complete Bluetooth name includes Bluetooth name + protocol type, which only supports modifying the Bluetooth name. After modifying the Bluetooth name, the names of all Bluetooth protocols have been changed. For example: if the Bluetooth name is set as Scanner, the name of Bluetooth HID is Scanner HID, the name of SPP is: Scanner SPP, and the name of BLE is Scanner BLE.

16. HID Setting

16.1 Allow long press button to enter HID search



16.2 Prohibit long press button to enter HID search



16.3 HID Keyboard pop up/hide



16.4 Disable double-click to pop up/hide HID keyboard



16.5 Enable double click to pop up/hide HID keyboard



17. GS Conversion Character Settings

17.1 Set GS conversion character



17.2 Turn off GS character conversion



18. Prefix and Suffix Settings

To add the prefix and suffix, scan to set the prefix or suffix first, and then scan the corresponding bar code (for the bar code see appendix), the maximum number is 32 bytes.

To cancel the prefix and suffix, scan to set the prefix or suffix first, and then scan to exit the setting mode.

Set prefix



Set suffix



19. Hide Barcode

To hide the barcode, scan the front part of the hidden barcode or the back part of the hidden barcode first, then scan the hidden digits, and hide the number up to 4 bytes.

19.1 Hide the front of the barcode



19.2 Hide the back of the barcode



Hide 1 bit:



Hide 2 bit:



Hide 3 bit:



Hide 4 bit:



20. Add Function Keys

20.1 Add a carriage return at the end



20.2 Add a newline at the end



20.3 Add carriage return and line feed at the end



20.4 Add Tab at the end



20.5 Disable add at the end



21. Conversion to Uppercase or Lowercase

21.1 Cast to lowercase



21.2 Cast to uppercase



21.3 Convert between uppercase and lowercase



21.4 Disable convert case



22、 Prefix and Suffix Setting

To add prefix and suffix, first scan to set prefix or suffix, then scan the corresponding barcode (see Appendix for barcode), up to 32 bytes. To cancel prefix and suffix, first scan to set prefix or suffix, then scan to exit the setting mode.



%%SpecCode9A
Setting the prefix



%%SpecCode9B
Setting the suffix



%%EnterSet
Entering Setup Mode



%%ExitSet
Exit Setup Mode

Setting the Conversion Character Set

The prefix and suffix table is divided into two parts, the control character table part and the displayable character table part. The displayable character table is mainly ASCII characters with a key value greater than 31. This part of the characters can generally be directly through the HID keyboard output, do not need to escape.

The control character table is mainly for characters with key value less than 32, most of these characters can not be output directly through the HID keyboard, and need to be escaped to be output from the HID keyboard. The scanner defines 5 kinds of escaping methods, and different escaping methods can be switched by scanning the code. Customers can set the appropriate escape character set according to their own needs.



%%SpecCodeBA0000
Setting the escape character set 0



%%SpecCodeBA0001
Setting the escape character set1



%%SpecCodeBA0002
Setting Escape Character Set 2 (Ctrl+X mode)




%%SpecCodeBA0003
Set escaped character set 3 (ALT+number send)






%%SpecCodeBA0004
Setting the escape character set4

23. Control character table















10hex	ASCII	Character set 0	Character set 1	Character set 2	Character set 3	Character set 4	setup code
1	SOH	NULL	Home	Ctrl+A	Alt+001	Enter on the numeric keyboard	 %%01
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock	 %%02
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow	 %%03
4	EOT	*Customized button 1	Down Arrow	Ctrl+D	Alt+004	Up Arrow	 %%04
5	ENQ	*Customized button 2	Left Arrow	Ctrl+E	Alt+005	NULL	 %%05
6	ACK	*Customized button 3	Right Arrow	Ctrl+F	Alt+006	NULL	 %%06
7	BEL	*Customized buttons 4	Shift+Tab	Ctrl+G	Alt+007	Enter	 %%07
8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow	 %%08
9	HT	Tab	Tab	Tab	Alt+009	Tab	 %%09
10	LF	Enter	Enter	Ctrl+P	Alt+010	Down Arrow	 %%0A
11	VT	NULL	NULL	Ctrl+Q	Alt+011	Tab	 %%0B
12	FF	NULL	NULL	Ctrl+R	Alt+012	delete	 %%0C
13	CR	Enter	Enter	Enter	Alt+013	Enter	 %%0D

14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert	 %%0E
15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc	 %%0F
16	DLE	F3	F11	Ctrl+P	Alt+016	F11	 %%10
17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home	 %%11
18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen	 %%12
19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space	 %%13
20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab	 %%14
21	NAK	F8	F12	Ctrl+U	Alt+021	F12	 %%15
22	SYN	F9	F1	Ctrl+V	Alt+022	F1	 %%16
23	TB	F10	F2	Ctrl+W	Alt+023	F2	 %%17
24	CAN	F11	F3	Ctrl+X	Alt+024	F3	 %%18
25	EM	F12	F4	Ctrl+Y	Alt+025	F4	 %%19
26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5	 %%1A
27	Esc	Esc	F6	Ctrl+[Alt+027	F6	 %%1B
28	FS	ALT+028	F7	Ctrl+\	Alt+028	F7	 %%1C

29	GS	ALT+029	F8	Ctrl+]]	Alt+029	F8	 %%1D
30	RS	NULL	F9	Ctrl+^ ^	Alt+030	F9	 %%1F
31	US	NULL	F10	Ctrl+_ _	Alt+031	F10	 %%1E








***Remarks: For how to use custom buttons, please refer to the "Instructions for Using Custom Buttons"**

Displayable character table

10 hex	ASCII	Set barcode	10 hex	ASCII	Set barcode
32	Space	 %%20	33	!	 %%21
34	"	 %%22	35	#	 %%23
36	\$	 %%24	37	%	 %%25
38	&	 %%26	39	'	 %%27
40	( %%28	41)	 %%29
42	*	 %%2A	43	+	 %%2B
44	,	 %%2C	45	-	 %%2D
46	.	 %%2E	47	/	 %%2F
48	0	 %%30	49	1	 %%31

50	2	 %%32	51	3	 %%33
52	4	 %%34	53	5	 %%35
54	6	 %%36	55	7	 %%37
56	8	 %%38	57	9	 %%39
58	:	 %%3A	59	;	 %%3B
60	<	 %%3C	61	=	 %%3D
62	>	 %%3E	63	?	 %%3F
64	@	 %%40	65	A	 %%41
66	B	 %%42	67	C	 %%43
68	D	 %%44	69	E	 %%45
70	F	 %%46	71	G	 %%47
72	H	 %%48	73	I	 %%49
74	J	 %%4A	75	K	 %%4B
76	L	 %%4C	77	M	 %%4D
78	N	 %%4E	79	O	 %%4F

80	P	 %%50	81	Q	 %%51
82	R	 %%52	83	S	 %%53
84	T	 %%54	85	U	 %%55
86	V	 %%56	87	W	 %%57
88	X	 %%58	89	Y	 %%59
90	Z	 %%5A	91	[ %%5B
92	\	 %%5C	93]	 %%5D
94	^	 %%5E	95	_	 %%5F
96	`	 %%60	97	a	 %%61
98	b	 %%62	99	c	 %%63
100	d	 %%64	101	e	 %%65
102	f	 %%66	103	g	 %%67
104	h	 %%68	105	i	 %%69
106	j	 %%6A	107	k	 %%6B
108	l	 %%6C	109	m	 %%6D

110	n	 %%6E	111	o	 %%6F
112	p	 %%70	113	q	 %%71
114	r	 %%72	115	s	 %%73
116	t	 %%74	117	u	 %%75
118	v	 %%76	119	w	 %%77
120	x	 %%78	121	y	 %%79
122	z	 %%7A	123	{	 %%7B
124		 %%7C	125	}	 %%7D
126	~	 %%7E	127	DEL	 %%7F
199	Ç	 %%C7	231	ç	 %%E7