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I. Getting Started

About this manual

This manual provides the most common and some special settings, including different types of bar code settings, function settings (lighting, keyboard interface, and default setting, etc.), and interface settings. If you need to change these settings, custom programming can be accomplished by scanning the bar codes in this guide.

With (*) indicates the most common default for a feature/option.



FFFFFE

Resetting the standard product defaults

If you are unsure of what programming options are in your scanner, or you've changed some options and want the factory settings restored, scan the "Standard Product Default Settings" bar code below. This will copy the factory configuration for the currently active interface to the current configuration.



FFFF6A

Access the version number



AD8771

Save to user configuration



FFFFF7

Restore user configuration

Interface selection

Identify as USB keyboard type and scan the "USB keyboard" bar code. USB can be recognized as a USB COM type, which requires the user to install a driver.



FFBFFE

USB keyboard (USB Keyboard)



FFBFFD

USB COM (Virtual serial port)

II. Function Mode Settings

This chapter can configure the function mode of the equipment, including working mode (such as image anti-white), Aimer setting, lighting configuration, LED indicator setting and beeper setting, etc. Kindly scan the corresponding configuration code according to the requirements in turn.

Working mode



7E9AA2

***Manual trigger mode**



7E9AA0

Automatic scan mode

Sensitivity settings

Automatic scan mode sensitivity is 15 class, class 1 highest, class 15 lowest.



B67A61



B67A62



B67A63



B67A64



B67A65



B67A68



B67A610



B67A615

Same bar code interval

Interval setting about automatic scan mode on same bar code



7EFD61

50 ms



7EFD62

100 ms



7EFD63

150 ms



7EFD64

200 ms



7EFD65

250 ms



7EFD66

300 ms



7EFD68

400 ms



7EFD610

500 ms



7EFD616

800 ms

Bar code Enable/Disable



Enable all bar codes



Disable all bar codes



Enable all 1-D codes



Disable all 1-D codes



Enable all QR codes



Disable all QR codes

Image anti-white



Image Back White



*Normal images

Vibration settings



Enable vibration



*Disable vibration

Lighting settings



B66771

***Aimer on**



B66770

Aimer off



B66781

***Light on**



B66780

Light off



B66890

***Normal LED indicator**



B66891

LED indicator reverse



B66892

LED indicator is always on



B66893

LED indicator is always off

Beeper setting

Note: This is the optional function, needs interface board support.



B667D0

***Enable**



B667D1

Disable

Beeper duration



7EA7A0

Normal



7EA7A1

Short



7EB9B7

2.7 kHz



7EB9B6

1.6 kHz



7EB9B5

2.0 kHz



7EB9B4

2.4 kHz



7EB9B3

3.1 kHz



7EB9B2

3.5 kHz



7EB9B1

4.2 kHz



7EB9B0

No sound

Sleep mode



ADBE610
10 Seconds



ADBE6100
100 Seconds

Class 3 lighting setting



ADC960
Class I



ADC961
Class II



ADC962
Class III

Double read timeout settings



B6AE620
30 Seconds



B6AE640
60 Seconds



B6AE680
120 Seconds



B6AE6120
180 Seconds



B6AE6160
240 Seconds



B6AE6200
480 Seconds

RS-232 Interface Options

RS-232 interface



FFBFFF

RS-232

RS-232 baud rate



7BEA61

600



7BEA64

4800



7BEA67

19200



7BEA69

57600

Data bits



7C6790

7 Data Bits



7BEA60

300



7BEA63

2400



7BEA65

***9600**



7BEA68

38400



7BEA610

115200



7C6791

8 Data Bits

Stop bits



7C67A0
2 Stop Bits



7C67A1
1 Stop Bits

Calibration settings



7C69B0
O



7C69B1
S



7C69B2
E



7C69B3
M



7C69B4
N

III. Output Configuration

This chapter can configure the output of the device, including entering/newline, add prefix/suffix, fixed bar code length decoding, remove bar code number (start/end removal) and multi-country keyboard switching settings, etc. You only need to scan the corresponding configuration code as required.

Enter/Newline settings



7CC791
Add enter



7CC790
Cancel enter



7CC781
Add newline



7CC780
Cancel newline

Serial port output settings



A6C8A2
Serial Output GBK



A6C8A1
Serial Output UTF-8



A7C961
CP932 coding output



A6C8A0
Serial Port Outputs by Bar code Content

Language output configuration for wireless devices (serial port)

1. Unicode Set Serial Output UTF-8", GBK Set Serial Output GBK "
2. If you want to remove the identifier in front of the bar code, set "remove the identifier in front of the bar code ".
3. If the transfer in Word ", set "Microsoft Word transfer". If Excel & Notepad output, set" Microsoft Excel& Notepad transfer "



A86781
Remove the bar code front marker



A86770
Microsoft word transmission



A86771
Microsoft Excel& Notepad Transfer

Keyboard mode output

Keyboard mode can be output to Chinese, if you need to output to Chinese, please scan the corresponding configuration code as required. (The default state is no Chinese, but other national languages are available)



A67960

***Default**



A67961

Notepad available word, not available for excel, purposes



A67962

Notepad, excel, not word available

Bar code save/removal

Remove bar code from start/end

The number of digits "B68E6X" can be removed from the start and at the end at the same time. (X is the number of digits removed, the last 1 represents the removal of one bit, if 2 removes two bits if 0 is not removed normally.)



B68E61

Remove bar code 1 bit from the start

Delete the bar code "B6BE6X" from the end (X is the number of digits removed, the last 1 represents the removal of 1 bit, if 2 removes two bits, if 0 is not removed normally.)



B6BE61

Remove bar code 1 bit at the end

Note: bar code can be used at the same time

Save data from start/end

You can only choose to save the start or the end data, can not save both at the same time. Scan the number of bits of the bar code from the start "AC8760", the number of bits of the bar code from the end "AC8761", then scan the reserved number bar code.



AC8760

Save the start data



AC8761

Save the end data



B69E69

Save of 9 bits of data

B69E6X" X is the number of digits reserved. For example, keeping 9 bits is B69E69, up to 255.

Set bar code length



67EE6255
Length 255



67EE61
Length 1

Additional code settings



6787D1
Enable 2-bit additional code



67FE60
Fixed Bar code Length



6787C1
Enable 5-bit additional code



6787D0
*Disable 2-bit additional codes



678791
All UPC/EAN codes must have additional codes



6787C0
*Disable 5-bit additional digits



678790
*No additional codes are required

Keyboard Mode Output

Keyboard mode can be output to Chinese, if you need to output to Chinese, please scan the corresponding configuration code as required. (The default state is no Chinese, but other national languages are available)



A67960
*Default



A67961

Notepad available word, QQ, not available for excel, note



A67962

Notepad, excel, the word is not available

Keyboard layout



7C8A60
Belgium



7C8A61
Britain



7C8A62
France



7C8A63
Germany



7C8A64
Italy



7C8A65
Spain



7C8A66
United States



7C8A68
Singapore



7C8A69
El Salvador



7C8A610
Japan



7C8A611
Sierra Leone



7C8A612
Turkey



7C8A613
Russia



7C8A615
Russian (Russia)



7C8A614
Hungary



A69E620
Spanish Latin keyboard



A69E629
Italy 142 Keyboard



A69E616
Thai



A69E626
Algeria



A6A761
Enable full ASCII code input

Analog keyboard

If you may need to type your character in the form of an ASCII code, you can configure the corresponding configuration code to simulate the keyboard as required.



A6A761

Enable Analog keyboard



A6A760

Disable Analog keyboard



A6A771

Enable the analog keyboard in front of zero



A6A770

Disable Analog Keyboard Front Zero

Case conversion



A68861

Convert to Lower Case



A68862

Convert to Upper Case



A68860

Default setting

Testing mode

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



FFFC

Enable blink test mode



FFFD

***Disable blink test model**

IV. Bar code Configuration

This chapter can be used for bar code configuration, UPC/EAN, included Code bar code, Code39, Full ASCII Code39, Interleaved 2of 5, Code93, UPC-A, GS1 Data Bar Omnidirectional, GS1 Data Bar Expanded, PDF417, QR Code, Hong Kong 2of 5(China Post) and Airline 2 of 5 support bar code configuration, you just need to scan the configuration code as required. (default *)

Bar code configuration

1. Airline 2of 5



6667A1
Enable



6667A0
*Disable

2. Aztec Code



66C761
Enable



66C760
*Disable

3. Coda bar



6677A1
*Enable



6677A0
Disable

4. Coda block A



8CA761
Enable



8CA760
*Disable

5. Coda block 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. Code 93



667781
Enable



667780
*Disable

11. Composite



A66761
Enable



A66760
*Disable

12. Data Matrix Code



66B791
*Enable



66B790
Disable



A7F7D1
Enable DM mirror



A7F7D0
*Disable DM mirror



66B780
*Disable DM anti-color



66B883
Enable DM positive and negative color

13. EAN/UPC



6677C1
*Enable



6677C0
Disable

14. EAN-8



6687A1
*Enable



6687A0
Disable



6DF761
*Enable EAN-8 Check Digit transmission



6DF760
Disable EAN-8 Check Digit transmission



6DB781

Enable EAN-8 converted to EAN-13



6DB780

*Disable EAN-8 conversion to EAN-13

15. EAN-13



668771

*Enable



668770

Disable



6DF781

*Enable EAN-13 Check Digit transmission



6DF780

Disable EAN-13 calibration bits transmission



A87781

Enable Remove check code spaces



A87780

*Disable Remove check code spaces

16. Full ASCII Code39



6687D1

Enable



6687D0

Disable

17. GS1 DataBar Expanded



66A7B1

Enable



66A7B0

*Disable

18. GS1 Data Bar Limited



66A7A1
Enable



66A7A0
*Disable

19. GS1 DataBar Omnidirectional



66A791
Enable



66A790
*Disable

20. HAN XIN



8D9771
Enable



8D9770
*Disable

21. Hong Kong 2 of 5(China Post)



6697C1
Enable



8D9770
*Disable



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. Micro PDF417



66A7D1
Enable



66A7D0
***Disable**

26. Micro QR Code



66C7B1
Enable



66C7B0
***Disable**

27. MSI



668781
Enable



668780
***Disable**

28. PDF 417



666761
***Enable**



666760
Disable

29. Pharm code



ACF7B1
Enable



ACF7B0
***Disable**

30. QR Code



66C781

***Enable**



66C780

Disable



A6E760

***Enable Access to web site QR codes**



A6E761

Disable Close URL QR code



A86761

Enable QR mirror



A86760

***Disable QR mirror**



66C791

Enable QR anti-color



66C790

***QR anti-color off**

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
*Enable UPC-A output Check Digit



6DB7D0
Disable UPC-A output Check Digit



6DB771
*Enable Output UPC-A digital system characters



6DB770
Disable output UPC-A digital system characters



6DB7A1
Enable UPC-A converted to EAN-13



6DB7A0
*Disable UPC-A converted to EAN-13

35. UPC-E



668761
*Enable



668760
Disable



6DB7C0

***Disable UPC-E output Check Digit**



6DB7C1

Enable UPC-E output Check Digit



6DB790

***Disable UPC-E send the first characters**



6DB791

Enable UPC-E to send the first character



6DB7B1

Enable UPC-E extended to 12 bits



6DB7B0

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

V. Special Function Configuration (Example)

This chapter enumerates some configuration examples used by the equipment and expounds the configuration method of the special function in detail, which is convenient for the user to operate to be familiar with the use of the product.

Set the prefix and suffix of 2 of 5 only

Prefix



A6A7D1

Enable



A6A7D0

Disable

Suffix



7CC7D1

Enable



7CC7D0

Disable

Scan the billing information code

Scan the following configuration code in turn:



A6C8A1

Serial Output GBK

Note: wireless settings or RS 232 need to scan the serial port output GBK
then scan "Output GBK content", Open billing information.



A67962

Output GBK content



A6C791

Enable the billing function



A6C790

Disable the billing function

Configuration only outputs the first 24 characters

If you need to scan the bar code value is (986698654666777969696123 9696969688)

Scan the following configuration code in turn:



B69781



B68E624

Display all information (need to configure Chinese output configuration):



A67960

Default



A67962

Notepad, excel, the word is not available

Used word, notepad, and excel are not available

Page Chinese Input Settings

Scanning from top to bottom:



FFFFFE

Recall Default



A67964

Utf-8 coding (available word, notepad, excel are not available)



7CC790

Disable Enter



7CC780



6ABF60

Disable newline



FFFFFF

Suffix plus #(configuration plus # configuration below)

Programming mode

Fixed Length Decoding

(up to 6 bar code types are supported for fixing length)

Add a single bar code type fixed-length configuration flow:

Example 1

Lock CODE 128 bar code length is 10, CODE 128 bar code type byte value is 083.

1. Scan the "Enter/Exit programming mode" bar code.
2. Scan "configure bar code type 1 length ".
3. Scan byte code values in turn "0","1","0".
4. Scan "configure bar code type 1 byte value ".
5. Scan byte code values in turn "0","8","3".
6. Scan the "enter/exit programming mode " bar code.

Add multi-bar code type length locking:

Example 2

1. Scan the "Enter/exit programming mode" bar code.
2. Scan "configure bar code type 1 length ".
3. Scan byte code values in turn.
4. Scan "configure bar code type 1 byte value ".
5. Scan byte code values in turn.
6. Scan "configure bar code type 2 length ".
7. Scan byte code values in turn.
8. Scan "configure bar code type 2 byte value ".
9. Scan byte code values in turn.
10. Scan the "enter/exit programming mode ".



FFFFFF

Enter/Exit programming mode



686F60

Configuration bar code Type 1 Length



687F60

Configure bar code type 1 byte



688F60

Configuration bar code Type 2 Length



689F60

Configure bar code type 2 byte



68AF60

Configuration bar code Type 3 Length



68BF60

Configure bar code type 3 byte



68CF60

Configuration bar code Type 4 Length



68DF60

Configure bar code type 4 byte



68EF60

Configuration bar code Type 5 Length



68FF60

Configure bar code type 5 byte



696F60

Configuration bar code Type 6 Length



697F60

Configure bar code type 6 byte

Bar code Type Table

Bar code byte value	Bar code type
002	UPC-E
003	EAN-8
004	UPC-A
005	EAN-13
080	CODE 39
081	CODABAR
082	INTERLEAVED 2OF 5
083	CODE 128
084	CODE 93
091	MSI
092	CODE 11

093	AIRLINE 2OF 5
094	MATRIX 2OF 5
095	TELEPEN
096	UK PLESSEY
097	AIRLINE (13DIGITs)
098	STANDARD 2OF 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

Byte code values (decimal)



1



2



3



4



5



6



7



8



9



0

Code ID



A8E7A1

Enable Output Code ID



A8E7A0

Disable Code ID output

Annex: Code ID Table

Bar code	Code ID	Bar code	Code ID
Code128	j	Plessey	n
GS1-128	j	matrix 2of 5	m
CODE39	b	industrial 2of5	F
EAN8	D	IATA 2OF 5	f
EAN13	d	CHINESE POST 2OF 5	Q
UPC-E	E	code 11	h
UPC-A	c	MSI	g
interleaved 2of 5	e	Code93	i
ITF-14		RSS-14	y
Coda bar	a	RSS-Limited	{
RSS-Expanded	}	GM Code	X
QR Code	s	Micro PDF 417	R
PDF417	r	Micro QR	-
Data Matrix	w	USPS Post net	P
Aztec Code	z	USPS Intelligent Mail	
Maxi code	x	Royal Mail	
HMS Code	H	USPS Planet	L
KIX Post	K	Australian Postal	A

Add Prefix

(Up to 10 characters, respectively)

Add prefix process:

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

1. Scan the "Enter/exit programming mode".
2. Scan "configuration prefix 1st byte".
3. Scan byte code values in turn "0", "4", "0".
4. Scan the "Enter/exit programming mode".

Add suffix flow: similar to adding a prefix.

Add a prefix of multiple bytes:

Example 3, add multiple byte prefixes

1. Scan the "Enter/exit programming mode".
2. Scan "configuration prefix 1st byte".
3. Scan the first-byte code in turn.
4. Scan "configuration prefix 2nd byte".

5. Scan the second-byte code value in turn.
6. Repeat 4,5, step...
7. Scan the "Enter/exit programming mode".

Add a suffix of multiple bytes: similar to adding multiple prefixes.

Clear all prefixes: Scan the clear all prefix bar code.

Clear all suffixes: Scan the "clear all prefix" bar code.

Add prefix



69BF60

Configure prefix 1 byte



69DF60

Configure prefix 3 bytes



69FF60

Configure prefix 5 bytes



6A8F60

Configure prefix 7 bytes



6A9F60

Configure prefix 9 bytes



FFFFEB

Clear all prefixes



FFFFFF

Enter/Exit programming mode



69CF60

Configure prefix 2 bytes



69EF60

Configure prefix 4 bytes



6A6F60

Configure prefix 6 bytes



6A7F60

Configure prefix 8 bytes



6AAF60

Configure prefix 10 bytes

Add Suffix



6ABF60

Configure suffix 1 byte



6ADF60

Configure suffix 3 bytes



6AFF60

Configure suffix 5 bytes



6B7F60

Configure suffix 7 bytes



6B9F60

Configure suffix 9 bytes



FFFFE A

Clear all suffixes



6ACF60

Configure suffix 2 bytes



6AEF60

Configure suffix 4 bytes



6B6F60

Configure suffix 6 bytes



6BAF60

Configure suffix 8 bytes



6B8F60

Configure suffix 10 bytes

Byte code values (decimal)



Annex: 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

ASCII code extension character (CP-1252 code)

Decimal	Character	Decimal	Character	Decimal	Character	Decimal	Character
128	€	160		192	À	224	à
129		161	í	193	Á	225	á
130	,	162	ç	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	^	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	l	239	i
144		176	°	208	Đ	240	đ
145	‘	177	±	209	N	241	n
146	’	178	²	210	O	242	o
147	“	179	³	211	O	243	o
148	”	180	´	212	O	244	o
149	·	181	μ	213	O	245	o
150	—	182	¶	214	O	246	o
151	—	183	·	215	×	247	÷
152	~	184	¸	216	Ø	248	ø
153	™	185	¹	217	U	249	u
154	š	186	º	218	U	250	u
155	›	187	»	219	U	251	u
156	œ	188	¼	220	U	252	u
157		189	½	221	Y	253	y
158	z	190	¾	222	þ	254	þ
159	Y	191	¿	223	ß	255	y

Annex: ASCII Character Reference Table

Note: you need to turn on invisible character transfer when you need to output function keys.

Non-printable ASCII control characters			Keyboard Control +ASCII (CTRL Keyboard Control +ASCII X)		
			Mode		
DEC	HEX	Char	Control +X Mode Off	Windows Mode Control +X Mode On	
				CTRL +X	CTRL +X function
000	00	NUL	NULL	CTRL+@	
001	01	SOH	NP Enter	CTRL+A	Select all
002	02	STX	Caps Lock	CTRL+B	Bold
003	03	ETX	Right Arrow	CTRL+C	Copy
004	04	EOT	Up Arrow	CTRL+D	Bookmark
005	05	ENQ	NULL	CTRL+E	Center
006	06	ACK	NULL	CTRL+F	Find
007	07	BEL	Enter	CTRL+G	
008	08	BS	Left Arrow	CTRL+H	History
009	09	HT	Tab	CTRL+I	Italic
010	0A	LF	Down Arrow	CTRL+J	Justify
011	0B	VT	Tab	CTRL+K	hyperlink
012	0C	FF	Backspace	CTRL+L	list,left align
013	0D	CR	Enter /Ret	CTRL+M	

014	0E	SO	Insert	CTRL+N	New
015	0F	SI	ESC	CTRL+O	Open
016	10	DLE	F11	CTRL+P	Print
017	11	DC1	Home	CTRL+Q	Quit
018	12	DC2	PrtScn	CTRL+R	
019	13	DC3	Delete	CTRL+S	Save
020	14	DC4	Tab+shift	CTRL+T	
021	15	NAK	F12	CTRL+U	
022	16	SYN	F1	CTRL+V	Paste
023	17	ETB	F2	CTRL+W	
024	18	CAN	F3	CTRL+X	
025	19	EM	F4	CTRL+Y	
026	1A	SUB	F5	CTRL+Z	
027	1B	ESC	F6	CTRL+[
028	1C	FS	F7	CTRL+\\	
029	1D	GS	F8	CTRL+]	
030	1E	RS	F9	CTRL+^	
031	1F	US	F10	CTRL+-	

Off CTRL+X mode (note: CTRL CTRL+XX default off)



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Enable transmission of invisible characters



A867D0

*Disable transmission of invisible characters

Note :(if you want to transfer the function key must be turned on, and must be turned off if not needed)

VI Other Settings

Ctrl+X mode



ABF771

Enable Ctrl+X mode



ABF770

*Disable Ctrl+X mode

ALT+digital keyboard



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Enable ALT with the digital keyboard



A6A760

***Disable ALT with the digital keyboard**