AiGather®

Product Reference Guide
2D Corded Series

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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.

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.

Access the version number

Save to user configuration

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.

USB keyboard (USB Keyboard)

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

50 ms

100 ms

150 ms

200 ms

250 ms

300 ms

400 ms

500 ms

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

7EB9B11

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

7BEA60

300

7BEA61

600

7BEA63

2400

7BEA64

4800

7BEA65

***9600**

7BEA67

19200

7BEA68

38400

7BEA69

57600

7BEA610

115200

Data bits

7C6790

7 Data Bits

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


67EE61
Length 1


67EE6255
Length 255


67FE60
Fixed Bar code Length

Additional code settings


6787D1
Enable 2-bit additional code


6787D0
***Disable 2-bit additional codes**


6787C1
Enable 5-bit additional code


6787C0
***Disable 5-bit additional digits**


678791
All UPC/EAN codes must have additional codes


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


A69E616

Thai


A69E620

Spanish Latin keyboard


A69E626

Algeria


A69E629

Italy 142 Keyboard


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.


FFFFFC

Enable blink test mode


FFFFFD

***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


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 (9866986546667779696961239696969688)

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

Enable Output Code ID

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.


FFFFFF

Enter/Exit programming mode

Add prefix


69BF60

Configure prefix 1 byte


69CF60

Configure prefix 2 bytes


69DF60

Configure prefix 3 bytes


69EF60

Configure prefix 4 bytes


69FF60

Configure prefix 5 bytes


6A6F60

Configure prefix 6 bytes


6A8F60

Configure prefix 7 bytes


6A7F60

Configure prefix 8 bytes


6A9F60

Configure prefix 9 bytes


6AAF60

Configure prefix 10 bytes


FFFFEB

Clear all prefixes

Add Suffix


6ABF60

Configure suffix 1 byte


6ACF60

Configure suffix 2 bytes


6ADF60

Configure suffix 3 bytes


6AEF60

Configure suffix 4 bytes


6AFF60

Configure suffix 5 bytes


6B6F60

Configure suffix 6 bytes


6B7F60

Configure suffix 7 bytes


6BAF60

Configure suffix 8 bytes


6B9F60

Configure suffix 9 bytes


6B8F60

Configure suffix 10 bytes


FFFFEA

Clear all suffixes

Byte code values (decimal)


1


2


3


4


5


6


7


8


9


0

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	A	224	a
129		161	¡	193	A	225	a
130	,	162	¢	194	A	226	a
131	ƒ	163	£	195	A	227	a
132	„	164	¤	196	A	228	a
133	…	165	¥	197	A	229	a
134	†	166	¦	198	Æ	230	æ
135	‡	167	§	199	C	231	c
136	ˆ	168	¨	200	E	232	e
137	‰	169	©	201	E	233	e
138	S	170	ª	202	E	234	e
139	‹	171	«	203	E	235	e
140	Œ	172	¬	204	I	236	i
141		173		205	I	237	i
142	Z	174	®	206	I	238	i

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

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)

A867D1

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

Enable ALT with the digital keyboard

***Disable ALT with the digital keyboard**