

# **Official User Manual**

# **English Version**

**V1.0.210429**

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## 1. Basic Info

This user manual includes symbology settings, function settings (lighting, keyboard type and factory default, etc.) and interface settings. If you need to change the function, scan the configuration according to the code below. All with (\*) indicate factory default.

### Factory Default

"Factory default" is to restore to the default factory state. After the user has set (user configuration), scan to restore the user configuration, and then restore the configuration saved by the user. If the scan restores the factory settings, it will be restored to the factory state.



FFFFFE

**Factory Default**



AD8771

**Save as user configuration**



FFFFF7

**Restore user configuration**

### Version Info

Obtaining the version number is for viewing the firmware version, and to obtain the existing version information, you can view the version number, activation information, manufacturer information, equipment OEM customer customization content, etc.



FFFF68

**Version No.**



FFFF6A

**Version Info**



FFFF8B

**Equipment Info**

## **Interface Mode Initialization**

Recognized as a USB keyboard type, scan the "USB HID" barcode. In the environment where the application software requires a serial port, USB can be recognized as a USB COM type, and the user needs to install a driver. Recognized as HID POS type, support software is required to use. This standard interface is USB-A.



**USB HID (USB Keyboard)**



**USB COM (Virtual serial port)**



**HID POS**

## RS232 Setting

The serial communication interface is a common way to connect the reading module and the host device (such as PC, POS and other devices). When the reading module is connected with the host using a serial cable, the system adopts the serial communication mode by default. When using the serial communication interface, the communication parameter configuration between the reading module and the host device must be completely matched to ensure smooth communication and correct content. The serial port configuration is: 9600 baud rate, 8-bit data, no parity bit , 1 stop bit. This standard interface is DB9.



## RS232 Baud Rate



7BEA61  
300



7BEA60  
600



7BEA62  
1200



7BEA63  
2400



7BEA64  
4800



7BEA65  
\*9600



7BEA67  
19200



7BEA68  
38400



7BEA69  
57600



7BEA610  
115200

**Data Bit**



7C6790  
7 Bit



7C6791  
Bit

8

**Stop Bit**



7C67A0  
2 Bit



7C67A1  
1 Bit

**Check Digit Settings**



7C69B2  
O



7C69B1  
S



7C69B0  
E



7C69B3  
M



7C69B4  
N

## 2. Function Mode Setting

This chapter can configure the function mode of the device, including working mode (such as image inversion, etc.), Aimer setting, lighting configuration, Led indicator setting and beeper setting, etc. You just need to scan the corresponding setting code as required. (Note: Manual mode is enabled by default for handheld, and automatic mode is enabled by default for desktop)

### Working Mode



7E9AA2  
**Manual**

\*PS: Only for Handheld



7E9AA0  
**Auto-Scan**

### Sensing Mode



A867C1

**Lighting Automatic**



A867C0  
**Lighting Manual**

### Sensitivity Setting

There are 15 grade of sensitivity in auto scan mode, 1 is the highest and 15 is the lowest. B67A6X, X stands for grade (B67A61-B67A615)



B67A61  
**Grade 1**



B67A64  
**Grade 4**



B67A66  
**Grade 6**



B67A68  
**Grade 8**

## Re-read Delay

The interval time of the same barcode in automatic scanning mode means that after reading a barcode, it will refuse to read the same barcode within the set time. It can be read and output only after the time is exceeded. The same barcode time can be set to 1-127 (minimum is 1, maximum is 127) 7EFD6X (X means the same barcode interval, 1 means 50ms, 127 means 127\*50ms) . 7EFD6X, X stands for (7EFD61 -7EFD6127)



7EFD61  
50ms



7EFD62  
100ms



7EFD63  
150ms



7EFD64  
200ms



7EFD65  
250ms



7EFD66  
300ms



7EFD610  
500ms



7EFD616  
800ms

## Barcode ON/OFF

Turning on all barcodes means enabling barcodes by default, turning on all 1D codes means enabling 1D codes enabled by default, and turning on all 2D codes means enabling 2D codes enabled by default. Close all barcodes, close all 1D codes, close all 2D codes to close all corresponding items.



FFFEFD  
All Barcode ON



FFFEFC  
All Barcode OFF



FFFEFB  
**1D Code ON**



FFFEFA  
**1D Code OFF**



FFFEF9  
**2D Code ON**



FFFEF8  
**2D Code OFF**

## Barcode Mirroring Settings

This setting means that the barcode image can be decoded normally after being mirrored or reflected by a mirror, mainly for QR codes.

### All Mirroring



A6D871  
**Enable**



A6D870  
**\*Unable**

### QR Mirroring



A86761  
**Enable**



A86760  
**\*Unable**

### Data Matrix Mirroring



A7F7D1  
**Enable**



A7F7D0  
**\*Unable**

## **Barcode Inverse Setting**

This setting can be decoded normally after the black area and white area of the barcode are interchanged.



B677A1

**Inverse Barcode**



B677A0

**Normal Barcode**



B678A0

**Only Decoding Normal Barcode**



B678A1

**Only Decoding Inverse Barcode**



B678A2

**Decoding All Barcode**

## **Lighting Setting**

### **Position Light**



B66771

**\*Aimer Enable**



B66770

**Aimer Unable**

\*PS: Only for Handheld Scanner

### **Filling Light**



B66781

**\*Light Enable**



B66780

**Light Unable**

### **Indicator**



B66890

**\*Normal**



B66891

**Backwards**



B66892

**Always OFF**



B66893

**Always ON**

### Beeper Setting



B667D0  
**\*Enable**



B667D1  
**Unable**

### Beeper Lasting Time



7EA7A0  
**Normal**



7EA7A1  
**Short**

### Beeper Frequency Setting



7EB9B7  
**2.7KHz**



7EB9B6  
**1.6KHz**



7EB9B5  
**2.0KHz**



7EB9B4  
**2.4KHz**



7EB9B3  
**3.1KHz**



7EB9B2  
**\*3.5KHz**



7EB9B1  
**4.2KHz**



7EB9B0  
**Slient**

### **Decoding Timeout Setting**

When making the configuration barcode, need add "^3" character in front of it, such as: ^3B6AE6X (X means the timeout time 20 is 30s), choose code 128, and the last digit is 0 for no timeout (the default is no timeout)



B6AE620  
30s



B6AE640  
60s



B6AE680  
120s



B6AE6120  
180s



B6AE6200  
200s

### 3.Output Setting

This chapter can configure the output of the device, including carriage enter/LF, serial port encoding settings, setting barcode length, removing barcode digits (removing the start/end, keeping the start and end), and multi-country keyboard switching settings, etc. You only need to scan as required. The corresponding configuration code can be used.

#### Enter/LF



7CC791  
\*Add Enter



7CC790  
Remove Enter



7CC781  
Add LF



7CC780  
\*Remove LF

#### Remove digits of Beginning/Ending

Remove the number of digits from the beginning of barcode "B68E6X" (X is the number of digits will remove, the last number like below code "1" means remove one digit, if it is "2", then remove two digits, if it is "0", means don't need remove, the user can configure it by himself, and can be used at the same time from the end remove barcode)



B68E61

#### Remove 1 digit from the beginning

Remove the number of digits from the ending of barcode "B68E6X" (X is the number of digits will remove, the last number like below code "1" means remove one digit, if it is "2", then remove two digits, if it is "0", means don't need remove, the user can configure it by himself, and can be used at the same time from the end remove barcode)



B6BE61

Remove 1 digit of ending

#### Remove digits of beginning&ending of Interleaved 2 of 5



AF7781

Enable



AF7780

Disable

## Keep digits of beginning&ending

You can only choose to keep the beginning or ending digit, but not both. Scan "AC8760" from the digit of the reserved barcode at the beginning, scan "AC8761" from the digit of the reserved barcode at the ending, and then scan the reserved digit barcode, "B69E6X" X is the digit of the reserved data. For example, if 9 bits are reserved, the maximum number of B69E69 is 255.



AC8760

**Keep beginning digit**



AC8761

**Keep ending digit**



B69E69

**Keep 9 digits**

## Barcode length setting

Code length can be setted to 1-255 (Minimum length is 1, The maximum length is 255) 67EE6X (X represents the length of the barcode)



67EE61  
Length is 1



67EE6255  
Length is 255



67FE60  
**Lock the code length**

## Caps conversion

Letter conversion, when outputting barcodes with letter content, you can configure the output result to be all uppercase or all lowercase. For example: if the barcode content is: ab12DE, if you scan the "all uppercase" barcode, the output result will be: AB12DE; if you scan the "all lowercase" barcode, the output result will be: abc12de; if you scan the "case swap" barcode, the output result will be: : AB12de; no case conversion by default



A68861

All lowercase



A68862

All uppercase



A68863

Case swap



A68860

\*No convert

## Serial port encoding output format



A6C8A2

Serial output UTF-8



A6C8A1

Serial output notUTF-8



A7C961

Serial output CP932



A7C960

\*Serial output Chinese



A6C8AO

Serial port output according to barcode content

## Wireless device output Chinese

1、For UTF, please set "Serial output UTF-8", for other encodings, please set "Serial output non-UTF-8", this is the above serial port encoding output configuration.

2、If you want to remove the identifier in front of the barcode, set "Remove the identifier in front of the barcode", otherwise it is not required, and the default is to output as it is.

3、3. For Word transfer, please set it for "WordPad, Word", and for Excell, Notepad, WPS transfer, please set it for "Notepad, Excel, WPS"



A86781

**Remove the marker of barcode beginning**



A86780

**\*Keep marker of barcode beginning**



A86771

**For "Notepad, Excel, WPS"**



A86770

**For "WordPad, Word"**

## **Keyboard mode encoding format**

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)



A67960  
\*Default



A67962  
For "Notepad, Excel, WPS"



A67961  
For "WordPad, Word"



A7B7C0  
Disable BIG5 (Traditional Chinese)



A7B7C1  
BIG5 (Traditional Chinese)



A67964  
UTF-8



A67965  
JIS



A67963  
GBK



A67967  
Notepad output Korean



A67966  
CP949  
Word Output Korean

## Language

When the device is used as a keyboard input device by default, some characters are different in different countries, and different national languages need to be set. Defaults is English.



7C8A60

**Belgium**



7C8A61

**UK**



7C8A62

**France**



7C8A63

**German**



7C8A64

**Italy**



7C8A65

**Spain**



7C8A66

**\*US**



7C8A68

**Singapore**



7C8A69

**El Salvador**



7C8A610

**Japan**



7C8A611

**Sierra Leone**



7C8A612

**Turkey**



7C8A613

**Russia( "windows1251" )**



7C8A614

**Hungary**



7C8A615

**Russia(" Shift-jis" )**



A69E616

**Thailand**



A69E620

**Spain-Latin**



A69E624

**CP866 Ruaaia Character**

**Russia/Ukraine**



A69E626

**Arabic**



A69E628

**German(Swiss)**



A69E629

**Italy 142 KB**



A69E631

**Portuguese**



A69E632

**Hebrew**



A69E633

**Poland**



A69E634

**Netherlands**



A6A761

**Enable Full ASCII Input**

## 4.One. Barcode Configuration Setting

This chapter can configure the barcode system for the device, including UPC/EAN, Codebar, Code39, Full ASCII, Code39, Interleaved 2 of 5, Code93, UPC-A, GS1 DataBar Omnidirectional, GS1 DataBar Expanded, PDF417, QR Code, Hong Kong 2 of 5 (China post) and Airline 2 of 5 support barcode configuration, you just need to scan the corresponding configuration code as required. (Default is \*)

### Barcode Configuration

#### Airline 2 of 5



6667A1

**Enable**



6667A0

**\*Unable**

#### Aztec Code



66C761

**Enable**



66C760

**\*Unable**

#### Aztec Code direct or reverse color



66C770

**\*Regular**



66C771

**Both**

### Codabar



6677A1  
\*Enable



6677A0  
Unable

### Codabar Check



9EF880  
\*Unable to Check



9EF881  
Enable to Check



9EF882

Enable to Check and send Check Digit

### Codabar Stop Bit



6DD7D1  
Enable output beginning&ending character



\*Disable output beginning&ending character

### Codabar direct or reverse



A888C0  
\*Regular



A888C1  
Both

### Codablock A



8CA761  
Enable



8CA760  
\*Unable

**Codablock F**

8CA771

**Enable**

8CA770

**\*Unable****Code 128**

667791

**\*Enable**

667790

**Disable****Code 128 direct or reverse color**

A878B0

**\*Regular**

A878B1

**Both****Code 11**

666791

**Enable**

666790

**Unable****Code 11 Check Digit Bit**

6E67B0

**\*1 Bit**

6E67B1

**2 Bit**

6DD791

**Enable to Send Check Digit Bit**

6DD790

**\*Enable to Send Check Digit Bit**

### Code 32



6687B1  
**Enable**



6687B0  
**\*Unable**

### Code 39



667771  
**\*Enable**



667770  
**Unable**

### Code 39Check Digit



9F6862

**\*Unable Check Digit**



9F6860  
**Enable**



9F6861

**Enable checksum and transmit checksum**



9F6781

**Enable output beginning&ending digit**



9F6780

**\*Disable output beginning&ending digit**

### Code 39 Direct or reverse color



A88880  
**\*Regular**



A88881  
**Both**

**Code 93**

667781

**Enable**

667780

**\*Unable****Code 93 Direct or reverse color**

A88860

**\*Regular**

A88861

**Both****Composite**

A66761

**Enable**

A66760

**\*Unable****Data Matrix Code**

66B791

**Enable**

66B790

**\*Unable****Matrix Data Matrix**

A7F791

**Enable Matrix DM**

A7F790

**\*Disable Matrix DM**

### Lattice Data Matrix



66B761

Enable Lattice DM(DPM)



66B760

\*Disable Lattice DM(DPM)

### Data Matrix direct or reverse color



66B780

\*Regular



66B781

Both

### EAN/UPC



6677C1

\*Enable



6677C0

Unable

### EAN/UPC Direct or reverse



A87860

\*Regular



A87861

Both

### EAN/UPC Boundary detection



8C67A1

\*Boundary high detection



8C67A0

Boundary low detection

**EAN/UPC No restricted area**



8C67A1  
**Enable**



8C67A0  
**\*Unable**

**EAN/UPC Two-digit additional code**



6787D1  
**Enable**



6787D0  
**\*Unable**

**EAN/UPC Five-digit additional code**



6787C1  
**Enable**



6787C0  
**\*Disable**

**EAN/UPC Additional code must be recognized**



678791  
**Enable**



678790  
**\*Disable**

**EAN-8**



6687A1  
**\*Enable**



6687A0  
**Disable**

### EAN-8 Check



6DF761

\*Enable output check bit



6DF760

Disable output check digit

### EAN-8 to EAN-13



6DB780

Enable



6DB781

\*Unable

### EAN-13



668771

\*Enable



668770

Unable

### EAN-13Check



6DF781

\*Enable output check bit



6DF780

Disable output check digit



A87781

Enable remove check space



A87780

\*Disable remove check space

**Full ASCII Code39**

6687D1

**Enable**

6687D0

**Unable****GS1 DataBar Expanded**

66A7B1

**Enable**

66A7B0

**\*Unable****GS1 DataBar Limited**

66A7A1

**Enable**

66A7A0

**\*Unable****GS1 DataBar Omnidirectional**

66A791

**Enable**

66A790

**\*Unable****HANXIN**

8D9771

**Enable**

8D9770

**\*Unable****Interleaved 2 of 5**

6677B1

**\*Enable**

6677B0

**Unable**

### **Interleaved 2 of 5 direct or reverse color**



A888A0

\*Regular



A888A1

**Both**

### **Interleaved 2 of 5 Check**



9EF861

**Open check**



9EF860

**\*No check**



9EF862

**Turn on checksum and transmit checksum**

### **Hong Kong 2 of 5(China post)**



6697C1

**Enable**



6697C0

**\*Unable**

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

### **Matrix 2 of 5**



6667B1

**Enable**



6667B0

**\*Unable**

### **Matrix 2 of 5 Check**



66B7D1

**Enable check bit**



66B7D0

**Disable check bit**



6DE781

**Enable output check bit**



6DE780

**\*Disable output check bit**

### **Maxicode**



66C7A1

**Enable**



66C7A0

**\*Unable**

### **MSI**



668781

**Enable**



668780

**\*Unable**

### **Micro PDF417**



66A7D1

**Enable**



66A7D0

**\*Unable**

**PDF417**

666761

**\*Enable**

666760

**Unable****PDF417Direct or reverse color**

A8D860

**\*Regular**

A8D861

**Both****Pharmacode**

ACF7B1

**Enable**

ACF7B0

**Unable****Micro QR Code**

66C7B1

**Enable**

66C7B0

**\*Unable****Micro QR Code Direct or reverse color**

66C7C0

**\*Regular**

66C7C1

**Both**

**QR Code**

66C781

**\*Enable**

66C780

**Disable****QR Code direct or reverse color**

66C790

**\*Regular**

66C791

**Both****QR Code Web code**

A6E760

**\*Enable**

A6E761

**Unable****RSS-14**

66A791

**Enable**

66A790

**\*Unable****RSS-LIMITED**

66A7A1

**Enable**

66A7A0

**\*Unable****RSS-EXPANDED**

66A7B1

**Enable**

66A7B0

**\*Unable**

### **Straight 2 of 5 Industrial**



667761

**Enable**



667760

**\*Unable**

### **Telepen**



6667D1

**Enable**



6667D0

**\*Unable**

### **Trioptic Code**



669781

**Enable**



669780

**\*Unable**

### **UPC-A**



6687C1

**\*Enable**



6687C0

**Unable**



6DB7D1

### **UPC-A Check**

**\*Enable output check bit**



6DB7D0

**Disable output check bit**

### **UPC-A output numeric system characters**



6DB771

**\*Enable**



#### UPC-A to EAN-13



6DB7A1  
**Enable**



6DB7A0  
**\*Unable**

#### UPC-E



668761  
**\*Enable**



668760  
**Unable**

#### UPC-E Check



6DB7C0  
**\*Disable output check bit**



6DB7C1  
**Enable output check bit**

#### UPC-E Output header characters



6DB791  
**Enable**



6DB790  
**\*Unable**

#### UPC-E Extended to 12 bits



6DB7B1  
**Enable**



6DB7B0  
**\*Unable**

**UPC-E1**

ABF781

**Enable**

ABF780

**\*Unable****USPS 4 STATE**

A7F7A1

**Enable**

A7F7A0

**Unable****PHARMA-COMDE-ONE-TRACK**

ACE7D1

**Enable**

ACE7D0

**Unable****GridMatrix**

8D9761

**\*Enable**

8D9760

**Unable****DOT\_CODE**

A7F771

**Enable**

A7F770

**\*Unable**

## ISBN 13Conversion settings

### Convert ISBN



6797C1  
Enable



6797C0  
\*Unable

### 978 beginning barcode ISBN conversion



6797D1  
Enable



6797D0  
\*Unable

### 979 beginning barcode ISBN conversion



8B77A1  
Enable



8B77A0  
\*Unable

### Add bookland prefix



8B77C1  
Enable



8B77C0  
\*Unable

### Transmit ISBN check digit



6797B1  
Enable



6797B0  
\*Unable

## **ISSN 13 Conversion settings**

**Convert barcodes starting with 977 to ISSN**



7B77D1

**Enable**



7B77D0

**\*Unable**

**ISSN is converted to "-"**



7B77C1

**Enable**



7B77C0

**\* Unable**

**Transmit the check digit of the ISSN**



7B77B1

**Enable**



7B77B0

**\*Unable**

## 5.Two. Other function setting

### Add Pre/Suffix (ASCII)

Note: If you need to add function keys, you need to turn on "Invisible Character Transmission" and turn off Ctrl+X to send. For specific functions, please refer to the corresponding function keys in the (Control + X Mode Off) column in the ASCII character comparison table.

### Add prefix(ASCII)

Add the prefix ASCII value, (^3\*\*\*\*\*XX,\* is the content before the corresponding barcode XX, XX is the ASCII value), if the transmission function key needs to open "invisible character transmission", prohibit "Ctrl+X mode send"



69BE6XX

Configure prefix 1 byte



69CE6XX

Configure prefix 2 bytes



69DE6XX

Configure prefix 3 bytes



69EE6XX

Configure prefix 4 bytes



69FE6XX

Configure prefix 5 bytes



6A6E6XX

Configure prefix 6 bytes



6A7E6XX

Configure prefix 7 bytes



6A8E6XX

Configure prefix 8 bytes



6A9E6XX

Configure prefix 9 bytes



6AAE6XX

**Configure prefix 4 bytes**

### Add Suffix(ASCII)

Add the suffix ASCII value, (^3\*\*\*\*\*XX,\* is the content before the corresponding barcode XX, XX is the ASCII value) If the transmission function key needs to open "invisible character transmission" and prohibit "Ctrl+X mode transmission"



6ABE6XX

**Configure suffix 1 byte**



6ACE6XX

**Configure suffix 2 byte**



6ADE6XX

**Configure suffix 3 byte**



6AEE6XX

**Configure suffix 4 byte**



6AFE6XX

**Configure suffix 5 byte**



6B6E6XX

**Configure suffix 6 byte**



6B7E6XX

**Configure suffix 7 byte**



6B8E6XX

**Configure suffix 8 byte**



6B9E6XX

**Configure suffix 9 byte**



6BAE6XX

**Configure suffix 10 byte**

**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	¢	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	ؑ	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	؂	210	Ò	242	ò
147	“	179	؃	211	Ó	243	ó
148	”	180	؄	212	Ô	244	ô
149	.	181	؆	213	Õ	245	õ
150	-	182	؊	214	Ö	246	ö
151	—	183	؊	215	×	247	÷
152	~	184	؉	216	Ø	248	ø
153	™	185	؋	217	Ù	249	ù
154	š	186	؎	218	Ú	250	ú
155	›	187	»	219	Û	251	û
156	œ	188	،	220	Ü	252	ü
157		189	؍	221	Ý	253	ý
158	ž	190	؏	222	߲	254	߲
159	Ӯ	191	ࡳ	223	߱	255	߱

## Code ID Setting



A8E7A1

Output Code ID



A8E7A0

\* Not Output Code ID

Annex: Code ID Table

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

## **GS&Control character conversion settings**

### **Control character settings**

After setting, all control characters will be output as text (see the ASCII character comparison table for details) in the Char content.



AC97A1

**Enable control character conversion**



AC97A0

**\*Disable control character conversion**

### **GS replacement settings**



AC9A60

**GS does not replace**



AC9A61

**GS is replaced by |**



AC9A62

**GS is replaced by Ç**



AC9A63

**GS is replaced with ]**



AC9A64

**GS is replaced with ^]**



AC9A65

**GS is replaced by <GS>**



AC9A66

**GS is replaced by (GS)**



AC9A67

**GS is replaced by 'GS'**



AC9A68

**GS is replaced by `GS`**



AC9A69

**GS is replaced by GS**



AC9A610

**GS is replaced with ?**



AC9A611

**GS is replaced with \***



AC9A612

**GS is replaced by [GS]**



AC9A613

**GS is replaced with <0x1D>**



AC9A614

**GS does not output**



AC9A615

**GS is replaced with ↵ (Word works)**

## Invisible character settings

When invisible character transmission is enabled, using USB HID will output the corresponding function key.  
(Some devices are invalid, you can use the simulated keyboard)



A867D1

**Transmit invisible characters**



A867D0

**\*Do not transmit invisible characters**

## Simulate keyboard settings

You may need to type your characters in the form of ASCII codes. At this time, you can configure the corresponding configuration code to simulate the keyboard as required.



A6A761

**Enable emulated keyboard**



A6A760

**\*Disable emulated keyboard**



A6A771

**Turn on the analog keyboard front zero**



A6A770

**\* Disable emulated keyboard with zero in front**

## Ctrl+X mode send

After this function is enabled, the ASCII control character becomes the output Ctrl combination control key  
(some devices are invalid)



ABF771

**Enable Ctrl+X mode send**



ABF770

**\*Disable Ctrl+X mode**

## ALT+Numpad send

After this function is turned on, it becomes the combined output of ALT+numeric keypad



A6A761

**Enable ALT plus numeric keypad send**



A6A760

**\*Disable ALT plus numeric keyboard**

## Annex: ASCII character comparison table

Non-printable ASCII control characters			Keyboard Control + ASCII (CTRL+X) Mode		
DEC	HEX	Char	Control + X Mode Off	Windows Mode Control + X Mode On	
				CTRL + X	CTRL + X function
0	00	NUL	NULL	CTRL+ @	
1	01	SOH	NP Enter	CTRL+ A	Select all
2	02	STX	Caps Lock	CTRL+ B	Bold
3	03	ETX	Right Arrow	CTRL+ C	Copy
4	04	EOT	Up Arrow	CTRL+ D	Bookmark
5	05	ENQ	NULL	CTRL+ E	Center
6	06	ACK	NULL	CTRL+ F	Find
7	07	BEL	Enter	CTRL+ G	
8	08	BS	Left Arrow	CTRL+ H	History
9	09	HT	Tab	CTRL+ I	Italic
10	0A	LF	Down Arrow	CTRL+ J	Justify
11	0B	VT	Tab	CTRL+ K	hyperlink
12	0C	FF	Backspace	CTRL+ L	list, left align
13	0D	CR	Enter / Ret	CTRL+ M	
14	0E	SO	Insert	CTRL+ N	New
15	0F	SI	ESC	CTRL+ O	Open
16	10	DLE	F11	CTRL+ P	Print
17	11	DC1	Home	CTRL+ Q	Quit
18	12	DC2	PrtScn	CTRL+ R	
19	13	DC3	Delete	CTRL+ S	Save
20	14	DC4	Tab+shift	CTRL+ T	
21	15	NAK	F12	CTRL+ U	
22	16	SYN	F1	CTRL+ V	Paste
23	17	ETB	F2	CTRL+ W	
24	18	CAN	F3	CTRL+ X	
25	19	EM	F4	CTRL+ Y	
26	1A	SUB	F5	CTRL+ Z	
27	1B	ESC	F6	CTRL+ [	
28	1C	FS	F7	CTRL+ \	
29	1D	GS	F8	CTRL+ ]	
30	1E	RS	F9	CTRL+ ^	
31	1F	US	F10	CTRL+ -	
127	7F	DEL	Delete		

## 6.Three. System function settings

This chapter will configure some system functions.

### USB transfer speed adjustment



8C67A0

\***USB keyboard is the fastest**



A788B1

**USB keyboard speed upper middle**



A788B2

**USB keyboard speed is medium to low**



A788B3

**Slowest USB keyboard**

### Add delay after carriage return

It is recommended to turn on the carriage return delay when using an Android device, and it is recommended to turn it off for other systems



ACA771

**Enable**



ACA770

**\*Disable**

## Add inter-character delay

After setting, the corresponding delay will be added between each character of the barcode content.

The setting code is A8F9BX where X is 1~7 (1 represents 5ms) and the maximum is 35ms

For example, a CODE128 code is 123456. When outputting, 1 is delayed for 10ms, then output 2 is delayed for 10ms, and output 3 is interpolated in turn.

Set the output effect without delay: 1 (no delay) 2 (no delay) 3 (no delay) 4 (no delay) 5 (no delay) 6  
<Enter>

Output effect after setting 10ms: 1 (delay 10ms) 2 (delay 10ms) 3 (delay 10ms) 4 (delay 10ms) 5 (delay 10ms) 6 <Enter>

