# 2D Barcode Scanner
# User's 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 Setting)**



**Read the Version Number**

### Interface initialization



FFBFFE

**USB Keyboard**



FFBFFD

**USB COM**

# 2:Scan mode

## About scan mode setting

Blow is the mode setting , scan the code if need to change the setting

### Working mode



7E9AA2

***（Manual trigger mode)**



7E9AA0

**Auto scan mode**

**Auto can mode same code interval time setting**



7EFD61

**50ms**



7EFD62

**100ms**



7EFD63

**150ms**



7EFD64

**200ms**



7EFD65

**250ms**



7EFD66

**300ms**

**Symbologies on/off**



FFFEFD

**Enable all symobologies**



FFFEFC

**Disable all symobologies**

FFFEFB

**Enable all 1D Codes**

FFFEFA

**Disable all1D codes**

FFFEF9

**Enable all 2D codes**

FFFEF8

**Enable all 2D codes**

## Image Reverse

B677A1

**Image reverse**

B677A0

***Normal image**

## Beeper

B667D0

***Beep on**


B667D1

**Beep off**

## Beeper working 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
**No sound**

**Read code delay setting**

B6AE620
**30s**

B6AE680

B6AE640
**60s**

**120s**

B6AE6120
**180s**

B6AE6160
**240s**

B6AE6200
**300s**

## Interface

### RS232 interface

FFBFFF

### RS232 Boud rate

7BEA60

**300**



7BEA61

**600**



7BEA63

**2400**



7BEA64

4800



7BEA65

*9600



7BEA67

**19200**



7BEA68

**38400**



7BEA69

**57600**



7BEA610

**115200**

**Data bit**



7C6790

**7 bit**


7C6791
**8 bit**

**Stop bit**


7C67A0
**2 bit**


7C67A1
**1 bit**

**Check digit**


7C69B0
**O**


7C69B1
**S**


7C69B2
**E**


7C69B3
**M**


7C69B4
**N**

## 3:Out put Configuration

## CR/LF setting


7CC791
**Add CR**


7CC790
**Cancel CR**


7CC781
**Add LF**


7CC780
**Cancel LF**

**Remove code from beginning/ending**


B69760
**Remove code from beginning**


B69761
**Remove code from ending**


B68E61
**Remove 1 bite(if need more bite , contact us)**

## Additional code setting



6787D1

**Enable2 bite additional code**



6787D0

***Disable2 bite additional code**



6787C1

**Enable5 bite additional code**



6787C0

***Disable5 bite additional code**



678791

**All UPC/EAN code with additional code**



678790

***no need additional code**

## Keyboard mode out put Chinese

keyboard mode can show Chinese , if need , pls scan the below code ,(defaults no Chinese ,but can show other country languages)



A67960

***default**



A67961

**Apply to word,qq， excel,notebook not ok**



A67962

**Apply to notebook、excel, word is not ok**

## Keyboard language



7C8A60

**Blegium**



7C8A61

**UK**



7C8A62

**France**



7C8A63

**Germany**



7C8A64

**Italy**



7C8A65

**Spain**



7C8A66

**USA**



7C8A69



7C8A68

**Singapore**

**El Salvador**



7C8A610

**Japan**



7C8A611

**Sierra Leone**



7C8A612

**Turky**



7C8A613

**Russia**



7C8A614

**Hungry**



7C8A615

**Russia(Russia)**

A69E616

**Thailand**

## Analog keyboard

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

A6A761

**Analog keyboard on**

A6A760

**Analog keyboard off**

A6A771

**0 before Analog keyboard on**

A6A770

**0 before Analog keyboard off**

## Case switching

A68861

**All lower case**

A68862

**All uppercase**



A68860

**Reset default**

# 4:Barcode setting
# Special function Configuration

This chapter support some special setting , pls scan the below code accordingly

## Only set up Interleaved 2 of 5 prefix and suffix



A6A7D1

**on**



A6A7D0

**off**

**Only output first 24 character**

if the code value is （123456789123456789000000ABCD）

Scan the below code



B68E624

Output result： ABCD

Show all the data（need Chinese output）：



B68E60

## Programming mode

**Barcode length locking （support most 6 type barcode length locking)**

**Add single barcode length locking progress：**

Example 1

Lock CODE 128 length is 10，CODE 128 barcode type value is 083(through the barcode type file)。

1. Scan enter/exit Programming mode,let the device enter Programming mode
2. Scan”barcode length 1”
3. Scan codel value“0”，“1”，“0”。One by one
4. Scan code type value 1
5. Scan codel value“0”，“8”，“3”。One by one
6. Scan “enter/exit programming mode”

**Add multi barcode length locking**

Example 2

7. Scan enter/exit Programming mode,let the device enter Programming mode
8. Scan”barcode length 1
9. Scan code value one by one
10. Scan code type value 1
11. Scan code value one by one
12. Scan”barcode length 2”
13. Scan code value one by one
14. Scan code type value 2
15. Scan code value one by one
16. Scan “enter/exit programming mode”



FFFFFF

**enter/exit Programming mode**



686F60

**Barcode length 1**



687F60

**code type value 1**



688F60

**barcode length 2**



689F60

**code type value 2**



68AF60

**Barcode length 3**



68BF60

**code type value 3**




**Barcode length 4**




**code type value 4**




**Barcode length 5**




**code type value 5**




**Barcode length 6**




**code type value 6**

## Barcode type

| Barcode value | Barcode type |
|---|---|
| 002 | UPC-E |
| 003 | EAN-8 |
| 004 | UPC-A |
| 005 | EAN-13 |
| 080 | CODE 39 |
| 081 | CODABAR |
| 082 | INTERLEAVED 2 OF 5 |
| 083 | CODE 128 |
| 084 | CODE 93 |
| 091 | MSI |
| 092 | CODE 11 |
| 093 | AIRLINE 2 OF 5 |

| | |
|---|---|
| **094** | **MATRIX 2 OF 5** |
| **095** | **TELEPEN** |
| **096** | **UK PLESSEY** |
| **097** | **AIRLINE(13 DIGITS)** |
| **098** | **STANDARD 2 OF 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** |

Add prefix/suffix（support most 10 character separately）

**Add prefix progress：**

Example 1，add prefix，character is ”（”，The corresponding decimal number of ASCII code is 040。

17. Scan enter/exit Programming mode,let the device enter Programming mode
1. Scan “prefix first character”
2. Scan code value “0”，“4”，“0”。One by one
3. Scan enter/exit programming mode

**Add suffix**

例 2，add suffix，character is”）”，The corresponding decimal number of ASCII code is 041。

18. Scan enter/exit Programming mode,let the device enter Programming mode
1. Scan”suffix first character”
2. Scan code value “0”，“4”，“1”。

3,Scan enter/exit Programming mode

**Add multiple character prefix**

Example 3，**Add multiple character prefix**

19. Scan enter/exit Programming mode,let the device enter Programming mode
1. Scan”prefix first character”
2. scan first code value one by one
3. Scan”prefix second character value
4. Scan second character
5. repeat 4 and 5 step
6. Scan enter/exit Programming mode

**Add multiple character prefix:**

Similar add multiple character prefix

**Clear all prefix：**

Scan code”clear all prefix”

**Clear all suffix：**

Scan “code “clear all suffix”

FFFFFF

**Enter/exit programming mode**



69BF60

**suffix first character**



69CF60

**Prefix second character**



69DF60

**Prefix third character**



69EF60

**Prefix fourth character**



69FF60

**Prefix fifth character**



6A6F60

**Prefix sixth character**



6A7F60

**Prefix seventh character**



6A8F60

**Prefix eigth character**



6A9F60

**Prefix ninth character**

FFFFEB

**Clear all the prefix**

6AAF60

**Prefix tenth character**

6ABF60

**Suffix first character**

6ACF60

**Suffix second character**

6ADF60

**Suffix third character**

6AEF60

**Suffix fourth character**

6AFF60

**Suffix fifth character**

6B6F60

**Suffix sixth character**

6B7F60

**Suffix seventh character**

6B8F60

**Suffix eigth character**




**Suffix ninth character**




**Suffix tenth character**




**Clear all suffix**

**Code value(Decimal)**
















5


6


7


8


9

# ASCII code

| 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 expand character
（**CP1252** code

| Decimal | character | Decimal | character | Decimal | character | Decimal | character |
|---|---|---|---|---|---|---|---|
| 128 | € | 160 |  | 192 | À | 224 | à |
| 129 |  | 161 | ¡ | 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 | 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 |