

# **Barcode Scanner Manual Guide**

**32bit high-speed CPU**

**Full ASCII character editing**

**Support Function key & Composite key**

**25 Language supported**

**V2.0**

















## Specification











Working current: 5/3.3V±10%×40mA (idle:10mA)			
Light source: 650±20nm VLD			
Scanning type : bi-directional			
Scanning width : 30cm			
BER : 1/5million			
Indication: Buzzer & LED			
Trigger Mode: Button, Continuous, Auto-Induction			
Auto-induction interval time:0.25S			
Depth of Field	3mil	2mm-100mm	CPU: ARM 32-bit  Resolution : 3mil  Decoding speed: 300/sec
	10mil	2mm-350mm	
	15mil	5mm-500mm	
	30mil	10mm-800mm	
Scanning angle: Angle of rotation±30°, inclination± 45°, declination ± 60°			
Printing Contract : ≥25%			
Anti-interference: No influence working under strong light and sunshine			
Decode Capability: UPC/EAN、Code128、Code39、Code 39Full ASCII、 Coda bar、industrial /Interleaved 2 of 5、Code93、MSI、Code11、 ISBN、ISSN、China post、GS1 Databar、Code32、etc.			
Button life : 8000,000 times		laser life: 12000 hours	
Drop test : 2m			
Interface: USB, USB-COM			
Certificate : CE, FCC, RoHS, Class I			

## General Settings -1

Scan barcode to setup scanner.

 Restore defaults(restore factory settings)	
<b>Trigger Mode</b>	
 Continuous Mode	
 Auto-induction -ON	 Auto-induction -OFF
<b>Buzzer Setup</b>	
 High tone*	 Low tone
 Volume Off	 Low volume
 Medium volume	 High volume *
<b>Duplicate barcode upload Setup</b>	
 Duplicate detection-ON (Unable to upload duplicate barcode)	 Duplicate detection-OFF* (upload duplicate barcode)
<b>Interface setup</b>	
 USB_HID *	 USB virtual COM
Note: If you set USB-COM, Data needs to be received through a serial port.	















## General Settings -2

End Mark			
 CR		 CR+LF	
 Tab		 None	
Capital/Lower case settings			
 Swap capital/lowercase		 All lowercase	
 All capital		 Cancel capital/lower case settings	
Barcode-ID			
 Add ID-OFF*		 Add ID-ON	
Barcode ID characters			
UPCA	b	CODE93	h
UPCE	c	CODABAR	k
EAN13	e	Interleaved 2 of 5	i
EAN8	d	industrial 2 of 5	j
ISBN, ISSN	f	China post	y
CODE39	a	MSI	l
CODE32	C	GS1D	D
CODE128	g	GS1L	L
CODE11	M	GS1E	E





















## General Settings -3

UPC&EAN	
 UPCA Check Digit- ON *	 UPCA Check Digit- OFF
 UPCE Check Digit- ON *	 UPCE Check Digit- OFF
 EAN13 Check Digit- ON *	 EAN13 Check Digit- OFF
 EAN8 Check Digit- ON *	 EAN8 Check Digit- OFF
 UPCA to EAN13- ON	 UPCA to EAN13- OFF *
 UPCE to UPCA-ON	 UPCE to UPCA-OFF*
UPC/EAN Extra-code	
 UPC/EAN Extra-code-OFF*	 UPC/EAN 2 Extra-code
 UPC/EAN 5 Extra-code	 UPC/EAN 2/5 Extra-code
EAN13 to ISSN/ISBN	
 EAN13 to ISBN-ON	 EAN13 to ISBN-OFF*
 EAN13 to ISSN-ON	 EAN13 to ISSN-OFF*


































## General Settings -4

CODE39	
 Full-ASCLL-OFF*	 Full-ASCLL-ON
GS1	
 GS1-ON	 GS1-OFF
CODE 32	
 CODE32-ON	 CODE32-OFF
CODE 128	
 CODE128-ON	 CODE128-OFF
CODE 93	
 CODE93-ON	 CODE93-OFF
CODE 11	
 CODE11-ON	 CODE11-OFF
CODEBAR	
 CODEBAR-ON	 CODEBAR-OFF

## Language

 UNITED STATES	 ITALY
 BELGIUM	 NETHERLANDS
 BRAZIL	 NORWAY
 DENMARK	 PORTUGAL
 FINLAND	 SPAIN
 FRANCE	 SWEDEN
 GERMANY	 UNIVERSAL
 SLOVENIA	 HUNGARY
 CROATIA	 POLAND
 UNITED KINGDOM	 CZECHOSLOVAKIA (SLOVAK)
Note: Support 25 Languages .	

## Insert and delete character

 Insert character		 Delete character	
 Save settings		 Clear settings	
 Prefix	Start add or clear data after bar code, setup by bar code in ASCLL Bar code Table		 Suffix
Bar code type(bar code data 068000-068018)			
 All type	 UPCE	 UPCA	
 EAN8	 EAN13	 ISBN/ISSN	
 Code39	 Code128	 Code93	
 Coda bar	 Interleaved 2 of 5	 industrial 2 of 5	
 MSI	 Code11	 China post	
 GS10	 GS1L	 GS1E	
 Code32	Don't scan bar code type by default all bar code type		
Save the setting. Data Group (Different data group settings can take effect all the same time )			
 Data group 1	 Data group 2	 Data group 3	
 Data group 4	 Data group 5	 Data group 6	
 Data group 7	 Data group 8	Don't scan data group set of barcode first group by default	



## Insert or delete character operation for example
















In the process of setting, scan the irrelevant bar code, the scanner will exit setting status

### Example 1:

Insert

Character:123456789(code128)















Insert Ab before bar code		Insert Cd after the third digit of the bar code		Insert Ef after bar code	
1.  Insert Character					
2.  All barcode type					
3.  Data group 1					
4.  Before barcode		 003 ETX		 After barcode	
5.  065 A		 067 C		 069 E	
6.  098 b		 100 d		 102 f	
Each data group can insert within 10 characters					
7.  Save Settings					
Setup result					
Ab123456789		123Cd456789		123456789Ef	
Remove of insert character setting, please scan in turn		 Insert character		 Clear settings	

1. Can set different bar code type, make this setting to this kind of bar code is effective

2. Can set different data group, make different setting take effective at the same time.
















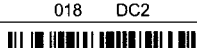
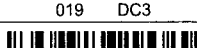
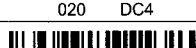

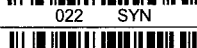
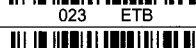
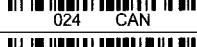
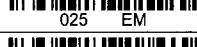
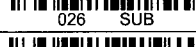

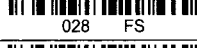


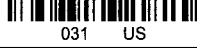










**Example 2:** Delete character: 123456789 (Code128)




















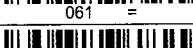
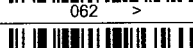
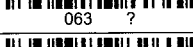
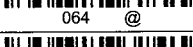
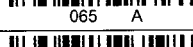
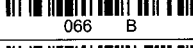
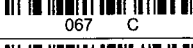
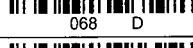

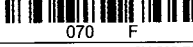
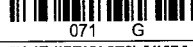









Delete one digit before bar code	Delete 2 digit after the third digit of the bar code	Delete three digit after bar code
1.  Delete character		
2.  All barcode type		
3.  Data group 1		
4.  Before barcode	 003 ETX	 After barcode
5.  001 SOH	 002 STX	 003 ETX
6.  Save settings		
Setup result		
23456789	1236789	123456
Remove of delete character setting, please scan in turn	 Delete character	 Clear settings



































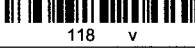
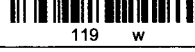
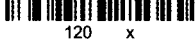
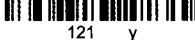

1. Can set different bar code type, make this setting to this kind of bar code is effective.
2. Can set different data group, make different setting take effective at the same time.

**Appendix2: ASCLL Barcode Table**
































 000 NUL/SP	 001 SOH	 002 STX
 003 ETX	 004 EOT	 005 ENQ

 006 ACK	 007 BEL	 008 Back Space
 009 HT/TAB	 010 LF	 011 VT
 012 FF	 013 CR/ENTER	 014 SO
 015 SI	 016 DLE	 017 DC1
 018 DC2	 019 DC3	 020 DC4
 021 NAK	 022 SYN	 023 ETB
 024 CAN	 025 EM	 026 SUB
 027 ESC	 028 FS	 029 GS
 030 RS	 031 US	 032 SP
 033 !	 034 "	 035 #
 036 \$	 037 %	 038 &
 039 '	 040 (	 041 )
 042 *	 043 +	 044 ,

 045 -	 046 .	 047 /
 048 0	 049 1	 050 2
 051 3	 052 4	 053 5
 054 6	 055 7	 056 8
 057 9	 058 :	 059 ;
 060 <	 061 =	 062 >
 063 ?	 064 @	 065 A
 066 B	 067 C	 068 D
 069 E	 070 F	 071 G
 072 H	 073 I	 074 J
 075 K	 076 L	 077 M
 078 N	 079 O	 080 P
 081 Q	 082 R	 083 S

 084 T	 085 U	 086 V
 087 W	 088 X	 089 Y
 090 Z	 091 [	 092 \
 093 ]	 094 ^	 095 _
 096 `	 097 a	 098 b
 099 c	 100 d	 101 e
 102 f	 103 g	 104 h
 105 i	 106 j	 107 k
 108 l	 109 m	 110 n
 111 o	 112 p	 113 q
 114 r	 115 s	 116 t
 117 u	 118 v	 119 w
 120 x	 121 y	 122 z

123 {	124	125 }
126 ~	127 DEL	128 F1
129 F2	130 F3	131 F4
132 F5	133 F6	134 F7
135 F8	136 F9	137 F10
138 F11	139 F12	140 l_Shift on
141 l_Shift off	142 r_Shift on	143 r_Shift off
144 l_Alt on	145 l_Alt off	146 r_Alt on
147 r_Alt off	148 l_Ctrl on	149 l_Ctrl off
150 r_Ctrl on	151 r_Ctrl off	152 /(KP)
153 *(KP)	154 -(KP)	155 +(KP)
156 _(KP)	157 Enter(KP)	158 0(KP)
159 1(KP)	160 2(KP)	161 3(KP)

 162 4(KP)	 163 5(KP)	 164 6(KP)
 165 7(KP)	 166 8(KP)	 167 9(KP)
 168 Inert	 169 Delete	 170 Home
 171 End	 172 Page Up	 173 Page Down
 174 Up	 175 Down	 176 Left
 177 Right	 178 Center	 179 Insert
 180 Delete	 181 Home	 182 End
 183 Page Up	 184 Page Down	 185 Up
 186 Down	 187 Left	 188 Right
 189	 190 Num Lock	 191 caps lock
 192 scroll lock		

## Frequently ask question

The bar codes in the user manual are for programming , please dont scan them arbitrarily when no need , otherwise may affect the normal use of the product .

Please try to scan "Reset Factory Defaults "bar code in the user manual for a try if the scanner cannot use normally ; if problem still not resolve , please try following methods .

### **Problem 1:**

the scanner doesn't have electricity to start on

#### **Reason:**

1. the cable interface loosed , please fixed connection interface.
2. the computer front USB port power supply shortage , please replace the computer interface or change another to try.
3. used the incorrect cables , please use the origina cable which the factory is equipped with
4. cable fault , please send back to the factory repair.

### **Problem 2 :**

the scanner has laser , but can't read the barcode

#### **Reason :**

1. barcode has flawed , and try to scan the same type barcodes for testing again .
2. the scanning mode is not correct , scanning laser need to completely cover the barcode , if still can't read , please adjust the scanning distance and Angle , the scanner can't read the barcode at 90 "angle .
3. the scanner did not open the corresponding code system , it has to scan the barcode after open the corresponding code system.

### **Problem 3 :**

the scanner has laser and it can read barcode , but can't upload the data

#### **Reason :**

1. The scanner has set up the incorrect output mode , please set the correct output mode refer to the manual.
2. the cable transmission failure , please replace the cable.

### **Problem 4:**

the scanner has laser and it can read barcode . but It uploads the wrong decoding barcode.

**Reason :** the keyboard layout of the scanner is different with the country you used , please use the scanner to read the keyboard settings on the manual