1D

Wireless barcode scanner

Manual Guide

***32-bit high-speed CPU *25 language settings**

Specification

TYPE	Distance	Memory
2.4G	≤100m	100000 barcodes
433M	≤400m	150000 barcodes
Working current：3.5Vx40mA		Standby current ：18uA-5mA
Working time ：3 to 10 days		Charging power：5V-400mA

Scanner parameters：

Scanning type ：bi-directional	Light source：650±20nm VLD
Scanning width ：30cm	BER ：1/20million
Printing Contract ：>25%	Indication：Buzzer & LED
Trigger Mode：Button，Continuous，Auto-Induction（Optional）	

Depth Of Field	3mil	2mm-100mm	CPU：ARM 32-bit Cortex 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°	
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 ：2.0m	Interface：USB，USB-COM
Certificate ：CE，FCC，RoHS，IP54	

General Settings

Scan barcode to setup scanner

Restore defaults(restore factory settings)

■How to use the scanner ?

1, Press the button, the buzzer rang “Di-di-di” , the blue light is on, the scanner starts.

2, Plug the receiver to your computer, the blue light is on, the receiver starts to work.

3, Please match the receiver and the scanner within 30 seconds!

4, Open a text, put the cursor in, Scan any barcode to see if the barcode can be uploaded.

Match(match the scanner and the receiver)

■Matching Operation

Plug the receiver to your computer，when it start to work ,Match the scanner and the receiver by scan the “Match” Barcode.

(1) Matching successfully, the buzzer rang “ Di-da-di”, “DI-di-di”.

(2) Matching failed, the buzzer rang “ Di---en”.

■Network Mode ：One to one ，More to one

►One to one —one scanner to one receiver

1, plug the receiver to your computer

2, scan the “Match” bar code to Match the receiver

►More to one —several scanner to one receiver

If you have 2 scanners: scanner A, scanner B,

1, Plug the receiver to your computer

2, Match for the scanner A: A scan the “Match” Barcode.

3, Unplug the receiver and Plug the receiver again.

4, Match for the scanner B: B scan the “Match” Barcode.

After that ,2 scanners can transmit the data to the receiver.

Working Mode

■Two upload mode：Instant upload mode、storage mode.

►Instant upload Mode：Instant upload data to your computer

Instant upload Mode

(1) Upload successfully: The blue light flashed and the buzzer rang “ Di ”.

(2) Upload failed: The red light flashed and the buzzer rang “ Di---en”.

►Storage Mode ：Scan and store barcode inside the scanner, and uploaded the data to your computer when you need it.

Storage Mode

Show total storage (Show total number of memory)	Upload Data (Upload Data to your computer)
High upload speed -default	Low upload speed

Zero clearing (clear all data in scanner)

1，Save successfully：The blue light flashed and the buzzer rang “ Di-en ”

2，Save failed：The red light flashed and the buzzer range “ Di---en”， This indicates that there was not enough memory to save the bar code. Please upload the saved bar code by scanning “Upload Date” and then clear the Memory by scanning “Zero cleaning” .

3，Upload completed: the buzzer rang “ Di-do-en ”.

Power and Standby Setup

Battery Reserve（show battery level）

Set the time for automatic shutdown	
50 seconds shutdown	2 minutes shutdown-Default
5 minutes shutdown	30 minutes shutdown

Battery level indication

1. The scanner starts, when the buzzer rang “Di-di-di” and the blue light is on with no red light flashing, it indicates that the battery is sufficient
2. The scanner starts, when the buzzer rang “Di-di-di” and the blue light is on with the red light flashes three times, it indicates that the battery less than 30%, please charge the scanner as soon as possible
3. The scanner starts, when the buzzer doesn’t make a sound and the blue light is off with the red light flashes three times. It indicates that the battery less than 20%. The scanner enters the low battery protection mode. Please charge the scanner at least for 30 minutes before using
4. Press the button, the scanner does not respond. Please charge the scanner at least for 30 minutes. If the scanner still cannot start, this indicates that the battery is broken and needs to be replaced.

LED tips during charging

Plugged the USB cable into the USB port of computer

1. Charging mode: the blue light is on with the red light flashing
2. Charging completed: the blue light is on and the red light goes out
3. Micro-current charging: the blue light off and the red light flashing (Note: This is battery protection phase, please do not use it in this condition)

General Settings-2

End Mark	
CR	CR+LF
Tab	None
Wire Setup (only 2.4G)	
Wire-ON*	Wire-OFF
Interface setup	
USB_HID	USB virtual COM
Buzzer Setup	
Volume Off	Low volume
Medium volume	High volume -Default
Trigger Mode	
Keys Trigger	Continuous Mode
Duplicate barcode upload Setup	
Duplicate detection-ON (Unable to upload duplicate barcode)	Duplicate detection-OFF -Default (upload duplicate barcode)

Language

UNITED STATES	BELGIUM
BRAZIL	DENMARK
FRANCE	GERMANY
HUNGARY	ITALY
LATIN AMERICA	NETHERLANDS
NORWAY	PORTUGAL
SPAIN	SWEDEN
UNITED KINGDOM	UNIVERSAL
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
GS1D	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 gruop 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.

Appendix：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

Question: Press the key, the red laser appear and then goes out, but there is no bar code display in the input box?

Answer:

1. The USB receiver has not plugged into the computer USB port, please make sure that the USB receiver has been fully plugged into the USB port.
2. The USB port of the computer is out of condition, please plugged the USB receiver into the USB port of another computer to test
3. The USB receiver is not matched with scanner yet, or the scanner is set to “storage mode” or “USB Virtual COM”, please unplugged the USB receiver and plugged it again, then scan the following barcode in turn, “Restore defaults”, “Match”, “Instant upload mode”, “USB_HID”,
4. The cursor is not in the input text box, please make sure the cursor is in the input box where you want to upload the barcode.
5. If the USB receiver indicator goes out or flasher, it indicates that the receiver is broken.

Question: Press the button, the scanner is not laser?

Answer:

1. The battery less than 20%. The scanner enters the low battery protection mode. Please charge the scanner at least for 30 minutes before using.
2. The laser engine is damaged and needs to be replaced.

Question: Read the barcode, the barcode data will be lost?

Answer: Slow down the HID speed of the scanner.

Question: Barcode characters is wrong?

Answer:

1.Set the scanner keyboard nations with using the keyboard.

2.Set more slow HID speed（in Mac）