

# **Wired Laser Barcode Scanner User Manual**

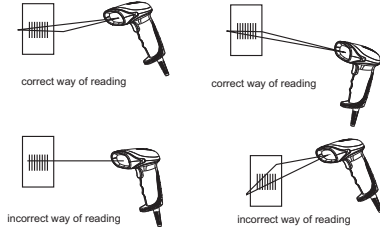


7 1 2 1 1 0 0 0 4

Thanks you for choosing our company's product. To have a better operating experience, please read this manual carefully.

## Reading Angle

1. Maintain a bevel between the scanner and the bar code to make a best reading.
2. Do not keep the scanner in 90° with the bar code, otherwise the scanner can't read.
3. The scanner must aim at the bar code and the beam must cover the whole bar code. If not, error may occur.



## Packing list:

- 1\*barcode scanner
- 1\*cable (USB/KB/COM)
- 1\*user manual
- 1\*Stand (optional)

## Product Introduction

This barcode scanner has USB/KB/COM interface for user's choice. With advantages of quick decoding speed and easy operation, it should be a good solution for bar code identification.

If you have any questions about the functions and settings, please contact us for more details.

**Our company reserves all rights of modifying and final explanation for the manual.**

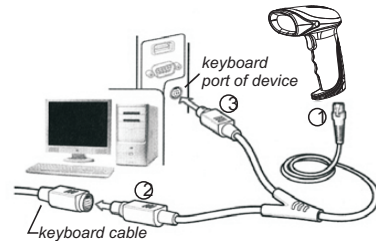
## Connecting the Scanner

### USB:

Connect the USB cable to the USB interface in the computer.

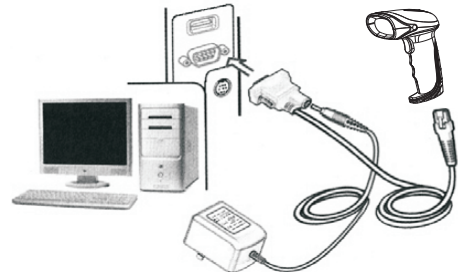
### PS/2:

1. Shut off the power supply of the host.
2. Pull out the keyboard of the host.
3. Confirm the PS/2 cable is suitable for the connection of the host.
4. Connect the scanner to the host.
5. Connect the keyboard port to the PS/2 cable.
6. Open the host.



### RS232:

1. Shut off the power supply of the host.
2. Confirm the connection is correct from the RS232 to the host.
3. Connect the AC adaptor to the power port of the scanner or connect the keyboard port of the host to the keyboard port of the scanner.
4. Open the host.
5. Scan the setup barcode to set the output mode as RS232 (serial mode).



## Technical Parameters

### Physical parameters

Material	ABS+TPE+PC
Power supply	DC 5V ±5%
Operating current	50ma(operating mode);30ma(standby mode); 100ma(maximum)
Quiescent current	20mA

### Performance parameters

Interface	USB、RS232、PS/2
Baud rate	RS232 baudrate: 600-115200
Light source	Visible laser 650nm (National laser safety standard Class 1)
Decoding Capability	Code 39,Code 93,Code128,Code11,UCC/EAN-128, EAN-8,EAN-13,UPC-A,ISSN+2,ISBN+5,Industrial 25,etc.
Trigger model	Manual operation;Autosensing scanning; Continuous scanning
Sensing distance	15cm(100cm²)
Resolution	Minimum 0.1mm(4mils)
Depth of field	2—9cm(0.1mmbar width);3—50cm(0.3mm bar width)
Decoding speed	300scans/sec
Scan width	5cm—30cm
Prompt Mode	Buzzer, Indicator light
Contrast	30%
Contrast	Roll 30°、Pitch 75°、Yaw 65°
Cylinder Horizontal	Diameter 35mm

### Environmental parameters

Operating Temp.	0 to 50 °C / 32 to 122 °F
Storage Temp.	0 to 50 °C / 32 to 122 °F
Operating Humidity	20 - 85% (non-condensing)
Storage Humidity	20 - 85% (non-condensing)
ESD Protection	15KV air discharge
Shock resistance	1.5m free fall on concrete surface

## Automatic Function Settings

- 1.If it is an automatic barcode scanner, it has already been well set with the auto scanning function. When there's an object passes the sensitive area (the sensitive area depends on the size of the object, normally is 5-30cm), the scanner will scan automatically. After it reads a bar code successfully, the light will be off and a trigger cycle finished. The scanner will read again when there's and object passes the sensitive area.
- 2.For the automatic barcode scanner with stand, the red light of the scanner will be on when the scanner is power on and put on the stand. This means the auto scanning function is on. When the scanner is removed from the stand, the red light will be off. Now the auto scanning function is off and the scanner turns to manual trigger mode.

*Notice: After reading a bar code successfully,please clear the barriers in the sensitive area.Otherwise,the scanner won't read again.*

## Function Settings

### Definition Settings



Show Version Info  
(user-defined)



Show Serial NO.  
(user-defined)



Reset Factory  
Defaults

### Interface



Default Interface



PS2 Keyboard Wedge



Serial



USB Keyboard Wedge



USB Serial

### Reading Mode



Default Mode



Single Scan No Trigger



Multiscan



Multiscan  
No Trigger



Continuous Scan



Pulse

### Buzzer



ON



OFF

### Add Code ID



No Code ID



Send Code ID as Prefix



Send Code ID  
as Suffix

### Language Settings



America English



Canada French



Dutch



Spanish



Argentina(Latin)



Brazil Portuguese



Danish



England English



Italian



France French



German



Norway



Swedish, Finnish



Slovak



Portugal Portuguese



Czech



Belgium Dutch



Turkish-F



Turkish-Q



Polish 214



Switzerland  
German, French



Croatian



Hungarian

### Serial Mode Parameter Settings (Baud Rate)



600bps



1200bps



2400bps



4800bps



9600bps



19200bps



38400bps



57600bps



115200bps

### Serial Protocol



Serial No  
Check Digit



Serial XON/OFF



Serial RTS/CTS



Serial ACK/NA



Hand Shake  
Timeout-2secs



Hand Shake  
Timeout-5secs

### Data Bits



7



8

### Stop Bits



1



2

### Check Digits



None



ODD



Even



Mark Check Digit



Space Check Digit

## Transmit Speed



Highest



Lower



Higher



Lowest

## Image



Revise Image Disable



Revise Image Enable

## Code 39



Code 39/on



Code 39/off



Code 39 ID as 'm'



Code 39 Full  
ASCLL-on



Code 39 Full  
ASCLL-off



Code39 MOD43  
Verify Off



Code39 MOD43  
Verify On



Code39 transmit  
verify-On



Code39 transmit  
CHARS-Off



Code39 transmit  
CHARS-On



Code39  
redundancy enable



Code39  
redundancy disable



Replace "2" with  
"TWO"-enable



Covert code39 into  
code32-enable



Replace "2" with  
"TWO" -disable



Covert code39 into  
code32 (DF)-disable



Code39 TAB Mode

## UPC-A



UPC-A on



UPC-A off



UPCA ID as 'e'



Convert UPCA into  
EAN13 enable



Convert UPCA into  
EAN13 disable



Transmit UPCA  
check code



Transmit UPCA  
check code disable



UPCA hide system  
character-disable



UPCA hide system  
character-enable

## UPC-E



UPC-E on



UPC-E off



UPC-E ID as 'f'



Convert UPCE  
into UPCA -enable



Convert UPCE  
into UPCA -disable

### EAN13



EAN13 /on



EAN13 /off



EAN13 ID as 'd'



Transmit EAN13  
check code-enable



Transmit EAN13  
check code-disable



Convert EAN13  
into ISBN-enable



Convert EAN13  
into ISBN-disable



Convert EAN13  
into ISSN-disable



Convert EAN13  
into ISSN-enable



EAN13  
redundancy enable



EAN13  
redundancy disable

### EAN 8



EAN8 /on



EAN8 /off



EAN8 ID as 'c'

### Supplements Settings



Supplements-5 digits



Supplements-2 digits



Supplements-2&5 digits



Supplements disable

### Code93



Code93 /on



Code93/ off



Code 93 ID as 'l'



Code93  
redundancy enable



Code93  
redundancy disable



Code 93 MOD47/on



Code 93 MOD47/off

### Code128



Code128/on



Code128/off



Code 128 ID 'a'



Code128  
redundancy disable



Code128  
redundancy enable

### Codabar



Codabar/on



Codabar/off



Codabar ID as 'v'



Codabar Send start/stop  
CHARS-enable



Codabar Send start/stop  
CHARS-disable



Codabar  
redundancy enable



Codabar  
redundancy disable

### Interleaved 25



Interleaved/ITF25-on



Interleaved/ITF25-off



ITF25 ID as 'n'



ITF25  
redundancy disable



ITF25  
redundancy enable

### Industrial 25



Industrial 25/ on



Industrial 25/ off



Industrial 25 ID as 'o'



Industrial 25  
redundancy enable



Industrial 25  
redundancy disable

### Code MSI



Code MSI/on



Code MSI/off



MSI ID as 's'



Code MSI  
redundancy disable



Code MSI  
redundancy enable

### Code Plessey



Code Plessey



Code Plessey/off



Code Plessey ID as 't'



Code Plessey  
redundancy disable



Code Plessey  
redundancy enable

### Code11



Code11/on



Code11/off



Code 11 ID as 'u'



Code11  
redundancy disable



Code11  
redundancy enable



Code11 auto CK verify



Code11 C verify



Code11 CK verify

### Matrix 25



Matrix 25/on



Matrix 25/off



Matrix 25 ID as 'q'



Postage Code 25/on



Postage Code 25/off



Postage  
Code 25 ID as 'r'



Aviation 25/on



Aviation 25/off



Aviation 25 ID as 'p'

## GS1



GS1 Omnidirectional/on



GS1 Omnidirectional/off



GS1 Omni ID as 'j'



GS1 Limited/on



GS1 Limited/off



GS1 Limited ID as 'k'

## FUNC



Cancel FUNC Mapping



Replace 'FUNC1' with '0'



Replace 'FUNC2' with '2'



Replace 'FUNC3' with '3'



Replace 'FUNC4' with '6'

## Front/Behind CHARS Settings



Hide CHARS-disable



Hide CHARS '-'



Replace '0'  
with 'A'-disable



Replace '0'  
with 'A'-enable



Replace '1'  
with 'ONE'-disable



Replace '1'  
with 'ONE'-enable



Delete CHARS  
in front of '12345'-disable



Delete CHARS  
in front of '12345'

## USB Upload



USB quick upload/on



USB quick upload/off

## IR Auto-sensing



IR Auto-sensing/on



IR Auto-sensing/off

## ASCII CHARS



Don't upload without  
ASCII CHARS and warn



Don't warn, upload  
without ASCII CHARS



## Hide Characters



Hide the behind  
CHARS-disable



Hide the front  
CHARS-disable



Hide the middle  
characters-disable



Starting from the  
front fourth CHAR



Hide the last 5  
characters-enable



Hide the front 5  
characters-enable



Hide the middle 5  
characters-enable

## Multiscan Settings



3 sec



5 sec



1 sec

## Conversion of EAN, ISBN & ISSN



Convert all EAN  
into ISBN-enable



Convert all EAN  
into ISSN-enable



Convert all EAN  
into ISBN-disable



Convert all EAN  
into ISSN-disable



Enter into checking  
mode (used with caution)

## Prefix & Suffix Setting



All codes add suffix CR



All codes add suffix CR+CR



LF all codes add suffix ETX



All codes add prefix F2



All codes add suffix F2



All codes add suffix  
format CHARS-disable



All codes add prefix STX



All codes add prefix disable



Set to add prefix



Set to add suffix



Quit out prefix and  
suffix adding mode











































































Clear all prefix CHARS

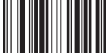









































































Clear all suffix CHARS

# Alphabet

 SOH	 STX	 ETX
 EOT	 ENQ	 ACK
 BEL	 Backspace	 TAB
 LF	 VT	 FF
 CR	 SO	 SI
 DLE	 DC1	 DC2
 DC3	 DC4	 NAK
 SYN	 ETB	 CAN
 EM	 SUB	 ESC
 FS	 GS	 RS
 US	 SPACE	 !
 "	 #	 \$

 %	 &	 .
 (	 )	 *
 +	 ,	 -
 .	 /	 0
 1	 2	 3
 4	 5	 6
 7	 8	 9
 :	 ;	 <
 =	 >	 ?
 @	 A	 B
 C	 D	 E
 F	 G	 H

 I	 J	 K
 L	 M	 N
 O	 P	 Q
 R	 S	 T
 U	 V	 W
 X	 Y	 Z
 [	 \	 ]
 ^	 _	 `
 a	 b	 c
 d	 e	 f
 g	 h	 i
 j	 k	 l

 m	 n	 o
 p	 q	 r
 s	 t	 u
 v	 w	 x
 y	 z	 {
 	 }	 ~
 Delete	 F1	 F2
 F3	 F4	 F5
 F6	 F7	 F8
 F9	 F10	 F11
 F12	 INSERT	 HOME
 Page up	 Delete	 END

