

# User's Manual

Bar code Scanner v8.0.2



# Table

Introduction .....	1
Auto-Introduction Barcode Scanner Operating Instruction .....	2
Appearance.....	4
Installing.....	4
Installing Keyboard Wedge Scanner .....	4
Installing RS-232C Interface Scanner.....	5
Installing USB interface scanner.....	5
Come Back Manufacture Setting.....	6
Display the Firmware Version.....	6
USB Mode.....	6
KBW Mode.....	6
RS-232 Mode.....	6
Multiscan Function .....	7
Scan Mode.....	7
Add Barcode ID.....	7
Buzzer.....	7
Interface KBW.....	8
Language.....	8
Capital Key On and Off.....	10
Convert Case.....	10
Interface Serial.....	11
Baud Rate.....	11
Handshake Protocol.....	11
Date Bit .....	12
Stop Bit .....	12
Parity Check.....	12
Barcode Enable/Disable.....	14
CODE 11.....	14
CODE 39.....	14
FULL ASCII.....	14
CODE 93.....	14
CODE 128.....	14
MSI/PLESSEY.....	15

INTERLEAVE 2 OF 5.....	15
INDUSTRIAL 2 OF 5 .....	15
MATRIX 2 OF 5.....	15
CODABAR.....	15
CHINA POSTAL CODE.....	15
UPC/EAN.....	16
Barcode Symbol Set Up.....	17
CODE 11.....	17
CODE 39.....	17
CODE 93.....	18
CODE 128.....	18
MSI/PLESSEY.....	18
INTERLEAVE 2 OF 5.....	19
INDUSTRIAL 2 OF 5 .....	19
CODABAR.....	19
UPC/EAN.....	20
Edit and Setup Barcode.....	23
Macro/Specical Key Setup Barcode.....	25
Termination String Setup Barcode.....	27
Advanced Setting Mode.....	29
Prefix.....	29
Suffix.....	30
Truncate Header Character.....	31
Truncate Trailer Character.....	32
Appendix.....	33
Appendix A: Full ASCII Table.....	33
Trouble Shooting and Error Beeps.....	47

## Introduction

Barcode devices provide an accurate, easy, and fast method of data entry and data storage for computerized information system.

The products we offer have another technology of infrared automatic sensor. User only need to put the barcode into sensing area which in front of window, 650nm laser will be automatic activated. Then aimed at the barcode which need to scan, the scanner scan automatically, the information will transmit to the host computer system.

There are two mode for this produce: handheld and automatic sensing laser barcode scanner. That means user can use it by handheld mode or can use as the fixation with the bracket-held.

The products we are offering now can be integrated into any host computer system by the following ways:

Keyboard

Wand

RS-232

Dual RS-232

USB

OTHERS

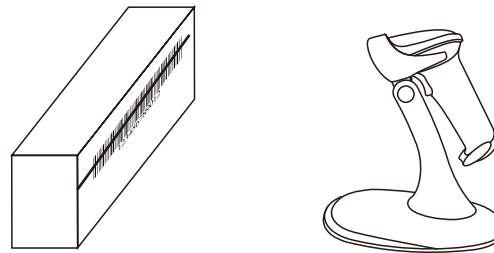
All the operating parameters are programmed by barcode programming menu and stored in non-volatile RAM which can retain the settings after power is turned off.

For the function which are not listed in this menu, please consult your supplier for more details.

\*All rights reserved, including those to reprint this manual.

## Auto-Introduction Barcode Scanner Operating Instructions

1. The default scan mode of this scanner is auto induction scan mode. It start to scan in 2 seconds, when the object is close to the scanner. (Figure 1)



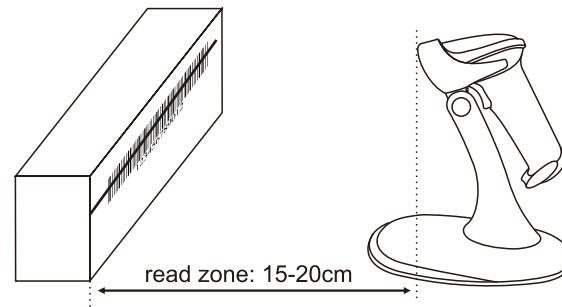
(Figure 1)

2. Press the button for 8 seconds, the user can switch the scanner mode between auto induction mode and manual trigger mode. (Figure 2)



(Figure 2)

3. The auto induction distance is 15-20CM. (Figure 3)

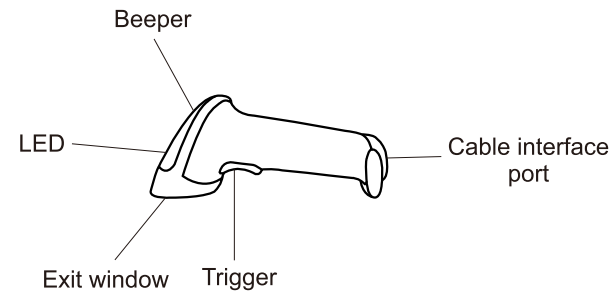


(Figure 3)

4. Make sure there is no baulk on the induction zone in front of the windows of scanner. If reading successful or can not reading in certain time, the scanner will auto-off laser.

5. When the laser close, Pls. Move the object from the induction zone, then the user can start to scan for next time.

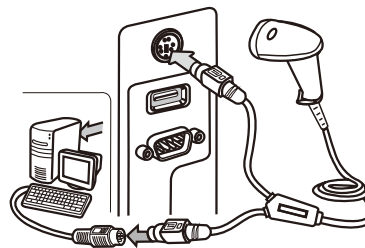
## Appearance



## Installing

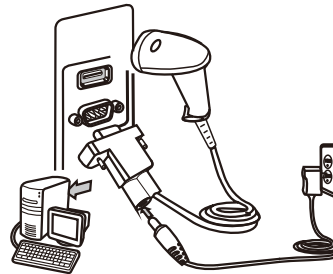
### Installing Keyboard Wedge Scanner

1. Make sure that the scanner has the correct cable for your system.
2. Turn off the power of the system.
3. Unplug the keyboard from the system.
4. Connect Y cable to the system and keyboard.
5. Turn on the power of the system.
6. If the indicator LED light up, buzzer sounds, the scanner is ready for reading.



### **Installing RS-232C Interface Scanner**

1. Make sure there is power supply for the scanner.
2. Connect the cable to the RS-232C port of the device.



### **Installing USB Interface Scanner**

Installing USB interface scanner (Windows will detect automatically.)





Come back manufacturer setting

**Note: all the parameters will come back  
to the manufacturer initial setting  
(\*)denotes default setting**



Display the firmware version



USB mode



KBW mode\*



RS-232 mode

## Multiscan Function

### Scanning Mode



Reset\*



Single scan no trigger



Multiscan



Multiscan no trigger



Automatic continue  
scan



Automatic twinkle

### Add Barcode ID



Before open barcode  
to add ID



Before close barcode  
to add ID



After open barcode  
to add ID



After close barcode  
to add ID

### Buzzer



Mute



Turn on

## Interface - KBW

### Language



USA\*



Belgium



France



Reset



Brazil



Canada-French



Croatia



Czech Republic



Czechoslovakia



Denmark



Finland



French



German



Hungary



Italy



Latin America



Holland



Norway



Poland



Portugal



Yugoslavia



Slovenia



Spain



Sweden



Switzerland-French



Switzerland-German



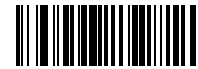
UK



General



Turkey-F



Turkey-Q

### Capital Key On and Off



Enable CapsLock



Disable CapsLock\*

### Convert Case



Convert All to Lower Case



Convert All to Upper Case



No Case Conversion\*

## Interface - Serial - 1

### Baud Rate



600



1200



2400



4800



9600\*



19200



38400



57600



115200

### Handshake Protocol



None\*



Xon / Xoff

## Interface - Serial - 2



RTS / CTS



ACK / NAK



Handshake timeout  
2 seconds



Handshake timeout  
5 seconds



7 data bits

### Data Bit



8 data bits\*



1 stop bit\*

### Stop Bit



2 stop bits



None\*

### Parity Check



Odd

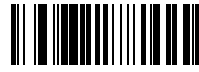


Even



Mark

### Interface - Serial - 3



Space



Reset



## Barcode Enable/Disable -1



Code 11 enable\*

### CODE 11



Code 11 disable



Code 39 enable\*

### CODE 39



Code 39 disable



FULL ASCII enable\*

### FULL ASCII



FULL ASCII disable



Code 93 enable\*

### CODE 93



Code 93 disable



Code 128 enable\*

### CODE 128



Code 128 disable



Code 128 ISBT  
enable\*



Code 128 ISBT  
disable

## Barcode Enable/Disable -2

### MSI/PLESSEY



MSI enable\*



MSI disable

### INTERLEAVE 2 OF 5



Interleave 2 of 5  
enable\*



Interleave 2 of 5  
disable

### INDUSTRIAL 2 OF 5



Industrial 2 of 5  
enable\*



Industrial 2 of 5  
disable

### MATRIX 2 OF 5



Matrix 2 of 5  
enable\*



Matrix 2 of 5  
disable

### CODABAR



Codabar enable\*



Codabar disable

### CHINA POSTAL CODE



China postal code  
enable\*



China postal code  
disable

### Barcode Enable/Disable -3

#### UPC/EAN



UPC-A enable\*



UPC-A disable



UPC-E enable\*



UPC-E disable



EAN-13 enable\*



EAN-13 disable



EAN-8 enable\*



EAN-8 disable

## Barcode Symbol Set Up -1

### CODE 11



Code 11 ID chars - 'm'



Code 11 ID chars - 'z'



Code 11 redundancy  
enable



Code 11 redundancy  
disable

### CODE 39



Code 39 SS chars - none



Code 39 SS chars - '+'



Code 39 start/end chars  
enable



Code 39 start/end chars  
disable\*



Code 39 ID chars - 'a'



Code 39 ID chars - 'z'



Code 39 redundancy  
enable



Code 39 redundancy  
disable

## Barcode Symbol Set Up -2

### CODE 93



Code 93 ID chars - 'h'



Code 93 ID chars - 'z'



Code 93 redundancy  
enable



Code 93 redundancy  
disable

### CODE 128



Code 128 ID chars - 'g'



Code 128 ID chars - 'z'



Code 128 redundancy  
enable

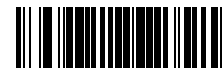


Code 128 redundancy  
disable

### MSI/PLESSEY



MSI ISBN ID chars - 'f'



MSI ISBN ID chars - 'z'



MSI redundancy  
enable



MSI redundancy  
disable

## Barcode Symbol Set Up -3

### INTERLEAVE 2 OF 5



Interleave 2 of 5  
ID chars - 'i'



Interleave 2 of 5  
ID chars - 'z'



Interleave 2 of 5  
redundancy enable



Interleave 2 of 5  
redundancy disable

### INDUSTRIAL 2 OF 5



Industrial 2 of 5  
ID chars - 'j'



Industrial 2 of 5  
ID chars - 'z'



Industrial 2 of 5  
redundancy enable



Industrial 2 of 5  
redundancy disable

### CODABAR



Codabar start/end chars  
enable



Codabar start/end chars  
disable\*



Codabar ID chars - 'k'



Codabar ID chars - 'z'

## Barcode Symbol Set Up -4

### CODABAR



Codabar space enable



Codabar space disable



Codabar redundancy  
enable



Codabar redundancy  
disable

### UPC/EAN



UPC-E convert to UPC-A  
enable



UPC-E convert to UPC-A  
disable\*



UPC-A convert to EAN-13  
enable



UPC-A convert to EAN-13  
disable\*



EAN-13 convert to ISBN  
enable



EAN-13 convert to ISBN  
disable\*



EAN-13 convert to ISBN  
enable



EAN-13 convert to ISBN  
disable\*

## Barcode Symbol Set Up -5

### UPC/EAN



UPC-A ID chars - 'b'



UPC-A ID chars - 'Z'



UPC-E ID chars - 'c'



UPC-E ID chars - 'Z'



EAN-13 ID chars - 'e'



EAN-13 ID chars - 'Z'



EAN-8 ID chars - 'd'



EAN-8 ID chars - 'Z'



ISBN ID chars - 'f'



ISBN ID chars - 'Z'



UPC/EAN redundancy  
enable



UPC/EAN redundancy  
disable



## Barcode Symbol Set Up -6

### UPC/EAN



UPC/EAN supplements  
- 2 digits



UPC/EAN supplements  
- 5 digits



UPC/EAN supplements  
- 2 & 5 digits



UPC/EAN supplements  
disable\*



EAN-13 Transmit  
Check Digit



EAN-13 Do Not Transmit  
Check Digit



UPC-A Transmit  
Check Digit



UPC-A Do Not Transmit  
Check Digit



UPC-A Transmit  
the Default "0"



UPC-A Do Not Transmit  
the Default "0"

## Edit and Set Up Brcode -1



Edit #1 - strip 1 leading  
character on all barcodes  
that start with '12345'



Reset



Edit #2 - strip the first  
character barcode



Reset



Edit #2 - strip the last  
character barcode



Reset



Edit #1 - filter leading spaces



Reset



Edit #1 - filter trailing spaces



Reset



Edit #1 - transmit all '-' character



Reset

## Edit and Set Up Brcode -2



Edit - insert leading '0'



Reset

## Macro/Spacial Key Set Up Barcode -1



Macro #1 - find '1' and  
replace with 'ONE'



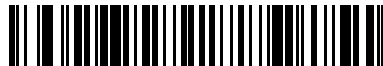
Reset



Macro #1 - find '2' and  
replace with 'TWO' for code 39



Reset



Macro #1 - find '0' and  
replace with 'A'



Reset

## Macro/Spacial Key Set Up Barcode -2



Macro #1 - find 'F3' and  
replace with '0'



Reset



Macro #1 - find 'ENTER' and  
replace with '2'



Reset

## Termination String Setup Barcode -1



String #1 -termination char -CR



String #1 -termination char -LF



String #1 -termination char  
-CR+LF



String #1 disable



String #2 -Code 128  
termination -CR

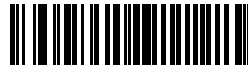


String #2 -Code 128  
termination -LF

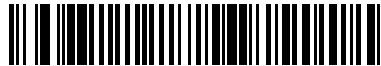
## Termination String Setup Barcode -2



String #2 -Code 128  
termination -CR+LF



String #2 -Code 128  
termination removed



String -Code 39 termination  
-TAB



String -Code 39 termination  
-TAB removed



String -all codes preamble  
- 'STX'



String -all codes postamble  
- 'ETX'

## Advanced Setting Mode -1

### Prefix

1. Scan "Prefix" label



Prefix

2. Scan the characters label from the Full ASCII Code Table.

Ex: Prefix "MG" before data is required, scan "M" "G" label.



M



G

The "MG" will be added before the barcode.



TEST

Scan the "TEST" barcode, will be "MGTEST".



## Advanced Setting Mode -2

### Suffix

1. Scan "Suffix" label



Suffix

2. Scan the characters label from the Full ASCII Code Table.

Ex: Suffix "OK" before data is required, scan "O" "K" label.



O



K

The "OK" will be added after the barcode.



TEST

Scan the "TEST" barcode, will be "TESTOK".

## Advanced Setting Mode -3

### Truncate Header Character

1. Scan "Truncate header character" label.



Truncate header character

2. Scan the number that you want to truncate from the Full ASCII Table.

Ex: Truncate 2 header characters, scan "\$02" label .



\$02  
STX

There will 2 header character be truncated.



123456789

Scan the above, there will be "3456789".

## Advanced Setting Mode -4

### Truncate Trailer Character

1. Scan "Truncate trailer character" label.



Truncate trailer character

2. Scan the number that you want to truncate from the Full ASCII Table.

Ex: Truncate 3 trailer characters, scan "\$03" label .



\$03  
ETX

There will 3 trailer character be truncated.



987654321

Scan the above, there will be "987654".

## Appendix

### Appendix A: Full ASCII Table



OC001  
Prefix



OC002  
Suffix



OC003  
Truncate header character



OC004  
Truncate trailer character



\$00  
NUL/SP



\$01  
SOH



\$02  
STX



\$03  
ETX



\$04  
EOT



\$05  
ENQ



\$06  
ACK



\$07  
BEL



\$08  
BS/Back Space



\$09  
HT/TAB



\$0A  
LF



\$0B  
VT



\$0C  
FF



\$0D  
CR/ENTER



\$0E  
SO



\$0F  
SI



\$10  
DLE



\$11  
DC1



\$12  
DC2



\$13  
DC3



\$14  
DC4



\$15  
NAK



\$16  
SYN



\$17  
ETB



\$18  
CAN



\$19  
EM



\$1A  
SUB



\$1B  
ESC/ESC



\$1C  
FS



\$1D  
GS



\$1E  
RS



\$1F  
US



\$20  
SP



\$21  
!



\$22  
''



\$23  
#



\$24  
\$



\$25  
%



\$26  
&



\$27  
,



\$28  
(



\$29  
)



\$2A  
\*



\$2B  
+



\$2C  
,



\$2D  
-



\$2E  
.



\$2F  
/



\$30  
0



\$31  
1



\$32  
2



\$33  
3



\$34  
4



\$35  
5



\$36  
6



\$37  
7



\$38  
8



\$39  
9



\$3A  
:



\$3B  
;



\$3C  
<



\$3D  
=



\$3E  
>



\$3F  
?



\$40  
@



\$41  
A





\$42  
B



\$43  
C



\$44  
D



\$45  
E



\$46  
F



\$47  
G



\$48  
H



\$49  
I



\$4A  
J



\$4B  
K



\$4C  
L



\$4D  
M



\$4E  
N



\$4F  
O



\$50  
P



\$51  
Q



\$52  
R



\$53  
S



\$54  
T



\$55  
U



\$56  
V



\$57  
W



\$58  
X



\$59  
Y



\$5A  
Z



\$5B  
[



\$5C  
\



\$5D  
]



\$5E  
^



\$5F  
—



\$60  
,



\$61  
a



\$62  
b



\$63  
c



\$64  
d



\$65  
e



\$66  
f



\$67  
g



\$68  
h



\$69  
i



\$6A  
j



\$6B  
k



\$6C  
l



\$6D  
m



\$6E  
n



\$6F  
o



\$70  
p



\$71  
q



\$72  
r



\$73  
s



\$74  
t



\$75  
u



\$76  
v



\$77  
w



\$78  
x



\$79  
y



\$7A  
z



\$7B  
{



\$7C  
|



\$7D  
}



\$7E  
~



\$7F  
DEL



\$80  
F1



\$81  
F2



\$82  
F3



\$83  
F4



\$84  
F5



\$85  
F6



\$86  
F7



\$87  
F8



\$88  
F9



\$89  
F10



\$8A  
F11



\$8B  
F12



\$8C  
L\_SHIFT ON



\$8D  
L\_SHIFT OFF



\$8E  
R\_SHIFT ON



\$8F  
R\_SHIFT OFF



\$90  
L\_ALT ON



\$91  
L\_ALT OFF



\$92  
R\_ALT ON



\$93  
R\_ALT OFF



\$94  
L\_CTRL ON



\$95  
L\_CTRL OFF



\$96  
R\_CTRL ON



\$97  
R\_CTRL OFF



\$98  
/(KP)



\$99  
\*(KP)



\$9A  
-(KP)



\$9B  
+(KP)



\$9C  
.(KP)



\$9D  
Enter(KP)



\$9E  
0(KP)



\$9F  
1(KP)



\$A0  
2(KP)



\$A1  
3(KP)



\$A2  
4(KP)



\$A3  
5(KP)



\$A4  
6(KP)



\$A5  
7(KP)



\$A6  
8(KP)



\$A7  
9(KP)



\$A8  
Inert



\$A9  
Delete



\$AA  
Home



\$AB  
End



\$AC  
Page Up



\$AD  
Page Down



\$AE  
Up



\$AF  
Down



\$B0  
Left



\$B1  
Right





\$B2  
6(KP)



\$B4  
Delete



\$B6  
End



\$B8  
Page Down



\$BA  
Down



\$BC  
Right



\$BE  
Num Lock



\$C0  
Scroll Lock



\$B3  
Inert



\$B5  
Home



\$B7  
Page Up



\$B9  
Up



\$BB  
Left



\$BD



\$BF  
Caps Lock

## **Appendix B: Troubleshooting and Error Beeps**

Problem: The LED without light, without buzz, without laser.

Cause: The power supply for scanner off, or the wire interface become flexible.

Solution: Check the power supply, make sure the power supply on work. Reconnect the scanner and the computer again by wire.

Problem: After scan, no data to be transmitted.

Cause: The scanners setup is incorrect.

Solution: Make sure the scanners setup is in the correct mode.

Problem: No power supply startup buzz when the interface reader connect to the computer.

Cause: The interface reader won't offer the power supply.

Solution: Use a direct with 5V to connect up.

Problem: After connect the interface scanner, no data transmit when reading the barcode.

Cause: Haven't setup the interface mode or communication agreement incorrect.

Solution: Setup the interface mode. Or reset the correct communication agreement.

Problem: The scanner reader is normal, but with buzz.

Cause: The incorrect setup, which setup in aphonia.

Solution: Scan the barcode of the startup voice.

Problem: Scan some of the barcode with buzz, but without the buzz when scan other barcode which in the same mode system.

Cause: The barcode be damage or there some problems with the barcode printing.

Solution: Check the barcode whether be damaged with carefulness. And check other barcode to find whether there are different to the same barcode system. Check the printer mode. Changed the setup of printer.

Problem: Other complexion or can't read the barcode.

Solution: Close the computer, re-connect the barcode scanner with the computer and keyboard, then turn on the computer power supply and check it; if still couldn't solve the problem, please contact with the dealer of the company.