

**wireless barcode scanner**  
**X-620**  
**User Manual**

## Performance

Strong decoding capability  
Rugged housing design  
Proprietary intellectual property  
Comfortable and convenient to use  
long life time button--3 million times  
long lasting lithium battery with 700mAh

## Packing list:

1\*wireless barcode scanner;  
1\*user manual;



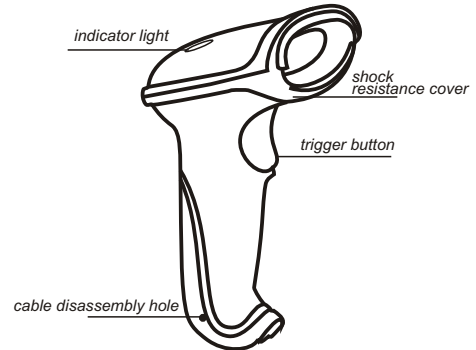
Warning:

1. Please pull out the power supply and cable from the scanner in stormy weather to avoid damaging.
2. Keep away from heat and maintain ventilation.
3. Keep away from water in the environment of storage, transportation and operation.
4. Please use the original USB adapter of the device.

## wireless barcode scanner knowledge

With the high-performance processor and decoder, it has a rapid decoding and high precision reading ability. It can read bar codes easily on paper, products, etc. because of the high resistance to environmental interference. The scanning distance of it is much longer than other similar products. It has the advantages of fast speed, high accuracy and excellent reading performance.

## Housing Design Description



To pull out the cable from the scanner, please plug in the clip to the cable disassembly hole. The scanner transfers data to the computer via the adapter. Please connect the adapter to the fixed computer USB interface. Do not plug in or pull out the adapter frequently in order to help improving the working efficiency and avoid man-made damage.



## How to Use

First, connect the USB adapter to the computer. (No driver needed.)

Second, place the cursor to where you want to enter the information or open a document in the computer, then use the barcode scanner to scan 1D barcodes. When the document shows the information, it reads successfully.

Third, connect the charging cable to the bottom of the scanner and use the computer USB interface or USB adapter to charge. The charging time is 2 hours. After finishing charging, the scanner can work 10 hours continuously.

The wireless barcode scanner has been set well before delivery. It can be used directly. Please do not scan the barcodes in the manual optionally to test the scanner. In case of scanning the setting barcodes and abnormal condition occurs, scan the 'initialization setting' barcode and 'serial mode' barcode in the manual.



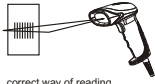
Initialization Setting



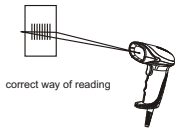
Serial Mode

## Reading Angle

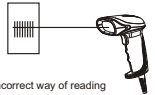
- Maintain a bevel between the scanner and the barcode to make a best reading.
- Do not keep the scanner in 90° with the barcode, otherwise the scanner can't read.
- The scanner must aim at the barcode and the beam must cover the whole barcode. If don't, error maybe occur.



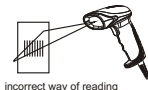
correct way of reading



correct way of reading



incorrect way of reading



incorrect way of reading

## Technology Parameters

### Physical Parameters

**Size:** 168mm\*73mm\*93mm

**Weight:** 300g

**Charging interface:** RJ-45 plug, 2 meters (with 5V charger, red light for charging, green light for battery charged)

**Housing material:** ABS+PC

### Performance Parameters

**Light source:** visible laser diode, wave length 650nm  
**Trigger mode:** manual (long press the button to turn off the scanner)

**Scanning mode:** single line scanning

**Scanning speed:** 150±2 scans/sec

**Resolution:** ≥3mil

**Error rate:** 1/50million

**Scanning resolution:** minimum 30% contrast

**Transmit frequency:** 2.4G

**Transmit distance:** 30 meters(customized)

**Depth of scanning field:** 5mm-630mm

**Scanning angle:** ±60°±65°±42°

**Decoding capability:** international standard 1D barcodes like LIPC/EAN/JAN, UPC/EAN with Supplemental, LICC/EAN 128, Code 39, MSI, Code11, Codabar,

### Electrical Parameters

**Charging time:** 2 hours

**Charging voltage:** DC5V±5%

**Power:** 100MW(operation), 500MW (maximum)

**Current:** 20MA(operation), 100MA(maximum)

**Standby current:** <20uA

### Environmental Parameters

**Light intensity:** 3000-12000LUX

**Temperature:** 0℃-50℃(operation mode); -40℃-60℃(storage)

**Package level:** IP 52

**Shock resistance:** design to fall from 2 meters height from concrete surface

## Scanning Standard



Correct Way of Scanning



Incorrect Way of Scanning



Incorrect Way of Scanning

## Wireless Barcode Scanner Operation

### Power On

Press the button. The scanner will beep two times and indicator light is on.

### Power Off

Press the button for 5 seconds. The indicator light is off.

### LED Indicator& Beeper

Indicator Light Color	Instruction
Green light and will be off soon	a short beep when reading successfully
Beep Sound	Instruction
A short beep	reading barcodes and the green light will be off soon
A long beep	low voltage and please connect the charger to charge
Double short beep	turn on the scanner
Three long beep	fail to upload data and need to reset the channel setting

### Scanning Mode Setup

- Setup instruction:
- Normal mode means real-time transmission. Scan 'Normal Mode' bar code, the scanner will be in real-time transmission.
- In inventory mode, the scanner will save the barcode it reads. When need to upload the data to computer, scan 'Data Upload' bar code.
- Scan 'Total Number of Data' bar code, the computer will show how many bar codes the scanner reads under inventory mode.
- Scan 'clear data' bar code means clear all the bar codes being read under inventory mode.



Normal Mode



Inventory Mode



Data Upload



Total Number of Data



Clear Data

## Sleep Time Setting

To set sleep time, first we need to scan 'sleep time' bar code. Second, scan the time you want to set.



Sleep Time



20 seconds



30 seconds



60 seconds



2 minutes



5 minutes



10 minutes



20 minutes

## Paired with the Adapter& User ID Settings

### Channel Settings

- If the scanner doesn't connect to the computer (data will not be uploaded to the computer), please do the following steps
- Channel settings need to be finished within 10 seconds after connect the adapter to the computer USB interface.
- Scan 'Channel Settings' bar code
- Scan two numeral bar codes on page 6. For example, scan '0' and '1', channel number will be 01.
- The setting range of the channel number can only be 01-20.



Channel Settings

### User ID Settings

- First, scan 'ID settings' .
- Scan two numeral bar codes below. For example, scan '0' and '1' , ID number will be 01. After finish setup, the ID number will be shown in front of all the barcodes read by the scanner.



ID Settings

User ID is set to be shown. If need to hide user ID, scan 'ID Hidden' . Scan 'ID Display' will show the User ID.



ID Display



ID Hidden



0



1



2



3



4



5



6



7



8



9

### Shutdown/Default value/Version information



Shutdown



Software information



Hardware information



Default value

### Barcode Setting

#### Code 11



Code 11 /on



Code 11 /off



ID Character 'm'



ID Character 'z'



Code 11  
redundancy enable



Code 11  
redundancy disable

#### Code 93



Code 93 /on



Code 93 /off



ID Character 'h'



ID Character 'z'



Code 93  
redundancy enable



Code 93  
redundancy disable

**Code 39**



Code 39/on



Code 39/off



Code 39 ALL ASCII-on



Code 39 ALL ASCII-off



Guide character - None



Guide character '+'



Send start/stop  
CHARS - enable



Send start/stop  
CHARS - disable



ID Character 'a'



ID Character 'z'



Code 39  
redundancy enable



Code 39  
redundancy disable

**Code 128**



Code 128 /on



Code 128/off



ID Character 'g'



ID Character "z"



Code 128  
redundancy enable



Code 128  
redundancy disable

**CODABAR**



CODABAR/on



CODABAR/off



Send start/stop  
CHARS - enable



Send start/stop  
CHARS - disable



ID Character 'k'



ID Character 'z'



CODABAR  
redundancy enable



CODABAR  
redundancy disable



Bar width gap  
allowed- enable



Bar width gap  
allowed - disable

**Interleaved/ITF25**



Interleaved/ITF25-on



Interleaved/ITF25-off



ID Character 'l'



ID Character 'z'



ITF25 redundancy enable



ITF25 redundancy disable



Convert UPC-A  
into EAN13 enable



Convert UPC-A  
into EAN13 disable

### Industrial 25



Industrial 25/on



Industrial 25/off



ID Character 'k'



ID Character 'z'



Industrial 25  
redundancy enable



Industrial 25  
redundancy disable



Transmit system bit enable



Transmit system bit disable



Transmit check digit enable



Transmit check digit disable



ID Character 'b'



ID Character 'z'

### MSI/PLESSEY



MSI-on



MSI-off



ID Character 'f'



ID Character 'z'



MSI redundancy enable



MSI redundancy disable

### UPC-A



UPC-A/on



UPC-A/off

### UPC-E



UPC-E/on



UPC-E/off



Convert UPC-E  
into UPC-A enable



Convert UPC-E  
into UPC-A disable



Transmit system bit enable



Transmit system bit disable



Transmit check digit enable



Transmit check digit disable



ID Character 'C'



ID Character 'z'

**EAN-13**



EAN-13/on



Convert EAN-13 into ISBN enable



Transmit system bit enable



Transmit check digit enable



ID Character 'e'

**EAN-8**



EAN-8/on



Transmit system bit enable



Transmit check digit enable



ID Character 'd'



EAN-13/off



Convert EAN-13 into ISBN disable



Transmit system bit disable



Transmit check digit disable



ID Character 'z'



EAN-8/off



Transmit system bit disable



Transmit check digit disable



ID Character 'z'

**ISBN**



ISBN/on



ID Character 'f'



ISBN/off



ID Character 'z'

**UPC/EAN**



UPC/EAN supplements disable



UPC/EAN supplements- 5 digits



UPC/EAN redundancy enable



UPC/EAN supplements- 2 digits



UPC/EAN supplements- 2&5 digits



UPC/EAN redundancy disable

**Code 32**



CODE 32/on



CODE 32/off



## Function Setting

### Output Mode



Version Number



Initialization



Keyboard wedge



Serial

### Language Setting



American English



German



French



Italian



Russian



Spanish

### Reading Mode



Single scan



Single scan no trigger



Multiscan



Multiscan no trigger



Auto continuous scan



Pulse

### Edit Setup Barcodes



Show barcode type



Hide barcode type



Lower case



Capital



Reset



Hide the first character



Hide the last character

## Suffix Setting



Cancel suffix



Termination CHAR- CR



Termination CHAR- space



Termination CHAR- TAB



Termination CHAR- TAB/CR



Termination CHAR- CR+CR



All codes preamble- STX



All codes postamble- ETX

## 1. Add prefix

The first step: scan the set-up code below (this step will clear the pre-set prefix)



0C001

Add prefix

The second step: scan the needed character codes (maximum add 10 characters)  
E.g. To add prefix "MG", scan character M and G orderly.



\$4D

M



\$47

G

Now "MG" will be added when scanning the normal bar codes.



TEST

Scan the above testing bar code, "MGTEST" will show.

## 2. Add suffix

The first step: scan the set-up code below (this step will clear the pre-set suffix)



0C002

Add suffix

The second step: scan the needed character codes (maximum add 10 characters)  
E.g. To add suffix "OK", scan character O and K orderly.



\$4F

O



\$4B

K

Now "OK" will be added when scanning the normal bar codes.



TEST

Scan the above testing bar code, "TESTOK" will be shown.

### 3. Hide the front characters

The first step: scan the set-up code below (this step will clear the previous settings )



0C003

Hide the front characters

The second step: scan the number needs to be hidden (maximum hide 10 characters)  
E.g. To hide two front characters, scan the set-up code "02".



\$02

STX

Now two front characters will be hidden when scanning the normal bar codes.



123456789

Scan the above testing bar code, "3456789" will be shown.

### 4. Hide the behind characters

The first step: scan the set-up code below (this step will clear the previous settings)



0C004

Hide the behind characters

The second step: scan the number needs to be hidden (maximum hide 10 characters)  
E.g. To hide three behind characters, scan the set-up code "03".



\$03

ETX





































Now three behind characters will be hidden when scanning the normal bar codes.











































































987654321

































Scan the above testing bar code, "987654" will be shown.

<p>0C001 add prefix</p>	<p>\$08 BS/Back Space</p>	<p>\$14 DC4</p>
<p>0C002 add suffix</p>	<p>\$09 HT/TAB</p>	<p>\$15 NAK</p>
<p>0C003 hide the front characters</p>	<p>\$0A LF</p>	<p>\$16 SYN</p>
<p>0C004 hide the behind characters</p>	<p>\$0B VT</p>	<p>\$17 ETB</p>
<p>\$00 NUL/SP</p>	<p>\$0C FF</p>	<p>\$18 CAN</p>
<p>\$01 SOH</p>	<p>\$0D CR/ENTER</p>	<p>\$19 EM</p>
<p>\$02 STX</p>	<p>\$0E SO</p>	<p>\$1A SUB</p>
<p>\$03 ETX</p>	<p>\$0F SI</p>	<p>\$1B ESC/ESC</p>
<p>\$04 EOT</p>	<p>\$10 DLE</p>	<p>\$1C FS</p>
<p>\$05 ENQ</p>	<p>\$11 DC1</p>	<p>\$1D GS</p>
<p>\$06 ACK</p>	<p>\$12 DC2</p>	<p>\$1E RS</p>
<p>\$07 BEL</p>	<p>\$13 DC3</p>	<p>\$1F US</p>

 \$20 SP	 \$2C ,	 \$38 8
 \$21 !	 \$2D -	 \$39 9
 \$22 "	 \$2E .	 \$3A :
 \$23 #	 \$2F /	 \$3B ;
 \$24 \$	 \$30 0	 \$3C <
 \$25 %	 \$31 1	 \$3D =
 \$26 &	 \$32 2	 \$3E >
 \$27 ,	 \$33 3	 \$3F ?
 \$28 (	 \$34 4	 \$40 @
 \$29 )	 \$35 5	 \$41 A
 \$2A *	 \$36 6	 \$42 B
 \$2B +	 \$37 7	 \$43 C

 \$44 D	 \$50 P	 \$5C \ 
 \$45 E	 \$51 Q	 \$5D ]
 \$46 F	 \$52 R	 \$5E ^
 \$47 G	 \$53 S	 \$5F _
 \$48 H	 \$54 T	 \$60 `
 \$49 I	 \$55 U	 \$61 a
 \$4A J	 \$56 V	 \$62 b
 \$4B K	 \$57 W	 \$63 c
 \$4C L	 \$58 X	 \$64 d
 \$4D M	 \$59 Y	 \$65 e
 \$4E N	 \$5A Z	 \$66 f
 \$4F O	 \$5B [	 \$67 g

 \$68 h	 \$74 t	 \$80 F1
 \$69 i	 \$75 u	 \$81 F2
 \$6A j	 \$76 v	 \$82 F3
 \$6B k	 \$77 w	 \$83 F4
 \$6C l	 \$78 x	 \$84 F5
 \$6D m	 \$79 y	 \$85 F6
 \$6E n	 \$7A z	 \$86 F7
 \$6F o	 \$7B {	 \$87 F8
 \$70 p	 \$7C 	 \$88 F9
 \$71 q	 \$7D }	 \$89 F10
 \$72 r	 \$7E ~	 \$8A F11
 \$73 s	 \$7F DEL	 \$8B F12

 \$8C L SHIFT ON	 \$98 /(KP)	 \$A4 6(KP)
 \$8D L SHIFT OFF	 \$99 *(KP)	 \$A5 7(KP)
 \$8E R SHIFT ON	 \$9A -(KP)	 \$A6 8(KP)
 \$8F R SHIFT OFF	 \$9B +(KP)	 \$A7 9(KP)
 \$90 L ALT ON	 \$9C .(KP)	 \$A8 Inert
 \$91 L ALT OFF	 \$9D Enter(KP)	 \$A9 Delete
 \$92 R ALT ON	 \$9E 0(KP)	 \$AA Home
 \$93 R ALT OFF	 \$9F 1(KP)	 \$AB End
 \$94 L CTRL ON	 \$A0 2(KP)	 \$AC Page Up
 \$95 L CTRL OFF	 \$A1 3(KP)	 \$AD Page Down
 \$96 R CTRL ON	 \$A2 4(KP)	 \$AE Up
 \$97 R CTRL OFF	 \$A3 5(KP)	 \$AF Down



## FCC Caution:

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.