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;

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.

Warning:

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.

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.
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.

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)
- Currency: 20MA(operation), 100MA(maximum)
- Standby currency: <20µA

**Environmental Parameters**
- Light intensity: 3000-12000LUX
- Temperature: 0°C-50°C (operation mode); -40°C-60°C (storage)
- Package level: IP 52
- Shock resistance: design to fall from 2 meters height from concrete surface
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

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

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.

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

<table>
<thead>
<tr>
<th>Sleep Time</th>
<th>20 seconds</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 seconds</td>
<td>60 seconds</td>
</tr>
<tr>
<td>2 minutes</td>
<td>5 minutes</td>
</tr>
<tr>
<td>10 minutes</td>
<td>20 minutes</td>
</tr>
</tbody>
</table>

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.
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.

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

Barcode Setting
- **Code 11**
  - ID Display
  - ID Hidden
  - ID Character 'm'
  - Code 11 redundancy enable
  - Code 11 redundancy disable

- **Code 93**
  - ID Character 'h'
  - Code 93 redundancy enable
  - Code 93 redundancy disable

Shutdown/Default value/Version information
- Shutdown
- Software information
- Hardware information
- Default value
ITF25 redundancy enable  ITF25 redundancy disable

Industrial 25
Industrial 25/on
Industrial 25/off
ID Character ‘k’
ID Character ‘z’
Industrial 25 redundancy enable  Industrial 25 redundancy disable

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
Convert UPC-A into EAN13 enable  Convert UPC-A into EAN13 disable
Transmit system bit enable
Transmit check digit enable
ID Character ‘C’
ID Character ‘z’

Transmit system bit disable
Transmit check digit disable
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-13/off
- Convert EAN-13 into ISBN disable
- Transmit system bit disable
- Transmit check digit disable
- ID Character ‘z’

EAN-8

- EAN-8/on
- Transmit system bit enable
- Transmit check digit enable
- ID Character ‘d’
- EAN-8/off
- Transmit system bit disable
- Transmit check digit disable
- ID Character ‘z’

ISBN

- ISBN/on
- ID Character ‘f’
- UPC/EAN supplements disabled
- UPC/EAN redundancy enable
- CODE 32/on
- CODE 32/off

- ISBN/off
- ID Character ‘z’
- UPC/EAN supplements- 2 digits
- UPC/EAN supplements- 5 digits
- UPC/EAN supplements- 2&5 digits
- UPC/EAN redundancy disable
Function Setting

Output Mode

- Version Number
- Initialization
- Keyboard wedge
- Serial

Reading Mode

- Single scan
- Single scan no trigger
- Multiscan
- Multiscan no trigger

Edit Setup Barcodes

- Auto continuous scan
- Pulse
- Show barcode type
- Hide barcode type
- Lower case
- Capital
- Reset
- Hide the first character
- Hide the last character

Language Setting

- American English
- German
- French
- Italian
- Russian
- Spanish
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
   0
   $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)

   \[ \text{add prefix} \]
   \[ \text{HT/TAB} \]
   \[ \text{hide the front characters} \]

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

   \[ \text{Scan the above testing bar code, "3456789" will be shown.} \]

4. Hide the behind characters
   The first step: scan the set-up code below (this step will clear the previous settings)

   \[ \text{add suffix} \]
   \[ \text{VT} \]
   \[ \text{hide the behind characters} \]

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

   \[ \text{Scan the above testing bar code, "987654" will be shown.} \]
<table>
<thead>
<tr>
<th>Hex</th>
<th>Char</th>
<th>Hex</th>
<th>Char</th>
<th>Hex</th>
<th>Char</th>
</tr>
</thead>
<tbody>
<tr>
<td>$68</td>
<td>h</td>
<td>$74</td>
<td>t</td>
<td>$80</td>
<td>F1</td>
</tr>
<tr>
<td>$69</td>
<td>i</td>
<td>$75</td>
<td>u</td>
<td>$81</td>
<td>F2</td>
</tr>
<tr>
<td>$6A</td>
<td>j</td>
<td>$76</td>
<td>v</td>
<td>$82</td>
<td>F3</td>
</tr>
<tr>
<td>$6B</td>
<td>k</td>
<td>$77</td>
<td>w</td>
<td>$83</td>
<td>F4</td>
</tr>
<tr>
<td>$6C</td>
<td>l</td>
<td>$78</td>
<td>x</td>
<td>$84</td>
<td>F5</td>
</tr>
<tr>
<td>$6D</td>
<td>m</td>
<td>$79</td>
<td>y</td>
<td>$85</td>
<td>F6</td>
</tr>
<tr>
<td>$6E</td>
<td>n</td>
<td>$7A</td>
<td>z</td>
<td>$86</td>
<td>F7</td>
</tr>
<tr>
<td>$6F</td>
<td>o</td>
<td>$7B</td>
<td>{}</td>
<td>$87</td>
<td>F8</td>
</tr>
<tr>
<td>$70</td>
<td>p</td>
<td>$7C</td>
<td></td>
<td></td>
<td>$88</td>
</tr>
<tr>
<td>$71</td>
<td>q</td>
<td>$7D</td>
<td>}</td>
<td>$89</td>
<td>F10</td>
</tr>
<tr>
<td>$72</td>
<td>r</td>
<td>$7E</td>
<td>~</td>
<td>$8A</td>
<td>F11</td>
</tr>
<tr>
<td>$73</td>
<td>s</td>
<td>$7F</td>
<td>DEL</td>
<td>$8B</td>
<td>F12</td>
</tr>
<tr>
<td>$8C</td>
<td>L SHIFT ON</td>
<td>$98</td>
<td>/ (KP)</td>
<td>$A4</td>
<td>6 (KP)</td>
</tr>
<tr>
<td>$8D</td>
<td>L SHIFT OFF</td>
<td>$99</td>
<td>* (KP)</td>
<td>$A5</td>
<td>7 (KP)</td>
</tr>
<tr>
<td>$8E</td>
<td>R SHIFT ON</td>
<td>$9A</td>
<td>(KP)</td>
<td>$A6</td>
<td>8 (KP)</td>
</tr>
<tr>
<td>$8F</td>
<td>R SHIFT OFF</td>
<td>$9B</td>
<td>+ (KP)</td>
<td>$A7</td>
<td>9 (KP)</td>
</tr>
<tr>
<td>$90</td>
<td>L ALT ON</td>
<td>$9C</td>
<td>Inert</td>
<td>$A8</td>
<td>Delete</td>
</tr>
<tr>
<td>$91</td>
<td>L ALT OFF</td>
<td>$9D</td>
<td>Enter (KP)</td>
<td>$A9</td>
<td>Home</td>
</tr>
<tr>
<td>$92</td>
<td>R ALT ON</td>
<td>$9E</td>
<td>0 (KP)</td>
<td>$AA</td>
<td>End</td>
</tr>
<tr>
<td>$93</td>
<td>R ALT OFF</td>
<td>$9F</td>
<td>1 (KP)</td>
<td>$AB</td>
<td>Page Up</td>
</tr>
<tr>
<td>$94</td>
<td>L CTRL ON</td>
<td>$A0</td>
<td>2 (KP)</td>
<td>$AC</td>
<td>Page Down</td>
</tr>
<tr>
<td>$95</td>
<td>L CTRL OFF</td>
<td>$A1</td>
<td>3 (KP)</td>
<td>$AD</td>
<td>Up</td>
</tr>
<tr>
<td>$96</td>
<td>R CTRL ON</td>
<td>$A2</td>
<td>4 (KP)</td>
<td>$AE</td>
<td>Down</td>
</tr>
</tbody>
</table>
**Warranty Card**

1. Customers can enjoy the legal rights using the purchase invoice and the warranty card without doing any warranty procedures.
2. All the warranty items are subject to the guarantee clause and user notice that published by our company.
3. We will not guarantee the product if it is in one of the following situation, but we can offer maintenance service with charges.
   1. Man-made damage or improper operation;
   2. Damage caused by maintenance of non-professionals;
   3. Have no warranty card, the model is inconsistent with actual or the warranty card is obliterated;
   4. Irresistible damage (natural disasters like thunder, earthquake, fire, etc.)
4. Please fill in the warranty card. Do not obliterate the card. Otherwise, we will make charges maintenance.
5. Please keep this card well. We will not offer another warranty card.

<table>
<thead>
<tr>
<th>User Name</th>
<th>Telephone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Address</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Purchasing Date</th>
<th>D/ M/ Y</th>
<th>Model</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serial NO.</td>
<td></td>
<td>Agency</td>
</tr>
</tbody>
</table>

**Maintenance Record**

<table>
<thead>
<tr>
<th>Date</th>
<th>Product Failure</th>
<th>Maintenance Condition</th>
<th>Repairman</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
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</tr>
</tbody>
</table>
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.