Wireless Laser Scanner Manual

- Long distance wireless communication
- Fast decoding speed with a large battery capacity
- Built-in FLASH memory, supports breakpoint resume
- Store 2000 pieces Code-128 codes under store mode
- Supports Windows XP, Win7/8, Wince etc.

**Package included:**
* Scanner x 1
* USB Cable x 1
* Receiver x 1
* Manual x 1
Barcode Scanner Overview

Operation Instruction:

1. Choose Communication Mode

   Working via USB Cable
   Connect scanner with your device via USB cable. If you use US keyboard, it's plug and play. If you use other type of keyboard, please refer to 'keyboard language' to configure the keyboard language before use it.

   Working via USB receiver
   Plug the USB receiver on your device, then you can start to use it. US keyboard is configured by default. If you use other type of keyboard, please refer to 'keyboard language' to configure the keyboard language before you use it.

2. Get started to scan normal barcode
   ① Scan barcode in a correct angel (±45+60°)

   ② Moving scanner towards the barcode back and forth to find the best scanning distance.
3. LED and Beeper Indication

<table>
<thead>
<tr>
<th>Successful Scan</th>
<th>Buzzer</th>
<th>LED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>One beep</td>
<td>Light On then OFF</td>
</tr>
<tr>
<td>Failed</td>
<td>Three beeps</td>
<td>Light flash once then OFF</td>
</tr>
<tr>
<td></td>
<td>Five beeps</td>
<td></td>
</tr>
</tbody>
</table>

**Important Note:**
When scanner makes three beeps please configure the channel for it. Refer to 'Configure Working Channel'.

When scanner makes five beeps please charge power for it for 3-4 hours until the LED light turns to solid blue.

**Barcode Programming**

Our barcode scanners are factory programmed for common terminal and communications settings. If you need to change these settings, programming is accomplished by scanning the bar codes in this guide. An asterisk (*) next to an option indicates the default setting.

**Communication Mode**

**USB -KBW** *
When you connect the scanner to the Host via a USB connection, you can enable the USB-KBW feature by scanning the barcode below. It works on a Plug and Play basis and no driver is required.
**Keyboard Language**

In order to output the codes in a correct way after you scan a normal barcode, you have to configure the keyboard language before you use it.

For example

If you use French Keyboard, scan command barcode of "French Keyboard", after that scanner will output barcodes according to French keyboard layout. US Keyboard is configured by default, if you use a US keyboard you can ignore this step.

- US Keyboard*
- French Keyboard
- Germany Keyboard
- Italy Keyboard
- Portugal Keyboard
- Spain Keyboard
- Turkey Keyboard
- UK keyboard
Scanning Mode

Trigger Mode (Default)
Scanning this bar code will enable the scanner to enter manual trigger mode.

![Trigger Mode barcode]

Continuous Mode
This mode enables the engine to scan/capture, decode and transmit over and over again.

![Continuous Mode barcode]

 Terminator
The scanner provides a shortcut for configuring the terminating character suffix to CR or CRLF and enabling it by scanning the appropriate barcode below.

![No terminator barcode]

Add TAB as terminator

![Add Enter as terminator barcode]
**Working Mode (Only apply for wireless mode)**

If you are heading for a working area which lies outside the signal range, you may activate store mode of the scanner. Under store mode, all scanned data will be stored directly into the buffer memory of the device. Furthermore, the data entries will be permanently saved in the buffer memory prior to the manual upload into the working station, so that you may upload them time and again to your liking.

1. By scanning the following barcode, the store mode will be activated

   ![Barcode](barcode.png)

   Store Mode

2. By scanning the following barcode, all data in the buffer memory will be deleted

   ![Barcode](barcode.png)

   Clear All Memory

3. By scanning the following barcode, all data entries in the buffer memory can be uploaded after reconnecting to the working station.

   ![Barcode](barcode.png)

   Uploading the Data

4. By scanning the following barcode, the gross quantity of the uploaded data entries will be summarised.

   ![Barcode](barcode.png)

   Summarising of Uploaded Data Entry Quantity
5. By scanning the following barcode, the device leaves the store mode, data will be outputed immediately the moment when you scan a barcode.

Quick Store Mode*

**Configure Idle time**
Scanner will stay awake during the idle time that you set for it and turn to sleep if you haven't used it during the whole idle time.

<table>
<thead>
<tr>
<th>$RF#ST02</th>
<th>$RF#ST06</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle Time- 1 Min</td>
<td>Idle Time- 3 Min</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>$RF#ST20</th>
<th>$RF#ST60</th>
</tr>
</thead>
<tbody>
<tr>
<td>Idle Time- 10Min</td>
<td>Idle Time- 30Min</td>
</tr>
</tbody>
</table>

Sleep Mode can be disabled by scanning below command barcodes

<table>
<thead>
<tr>
<th>$POWER#OFF</th>
<th>$RF#ST00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power Off</td>
<td>Disable Sleep Mode</td>
</tr>
</tbody>
</table>
Configure the channel

When scanner makes three beeps please configure channel to rebuild the connection between scanner and receiver.

Steps:
Make sure you have removed the USB cable from the scanner before you configure the channel
1. Scan one of below channel after that scanner will make beep beep... sound.
2. Plug the USB receiver, the beep sound will stop immediately.
   (Configure successfully)
**Factory Restore**

Configure the scanner to revert all configurations to factory defaults when unknown issues have happened.

![Factory Restore Barcode]

**Start Wireless Scan**

If there's beep sound after you scan a normal barcode but cannot output any data please scan below command barcode to start wireless scan.

![Start Wireless Scan Barcode]

**Check scanner Version**

Scanned below command barcode to check the scanner's version.

![Scanner Version Barcode]
Configure Code ID

A code ID character identifies the code type of a scanned bar code. This can be useful when decoding more than one code type. The code ID character is inserted between the prefix character (if selected) and the decoded symbol.

01400
Disable Prefix Code ID*

01401
Enable Prefix Code ID

0B140
Disable Suffix Code ID*

01402
Enable Suffix Code ID
**Symbologies**

Users usually need to know barcode type in the process of scanning

### Code 11

![Barcode Image]

- **01261** Enable Code 11
- **01260** Disable Code 11

![Barcode Image]

- **01321** Enable Code11 Multi-Verification
- **01320** Disable Code11 Multi-Verification

### Code 39

![Barcode Image]

- **00221** Enable Code39
- **00220** Disable Code39

![Barcode Image]

- **00251** Enable transmit Code39 check digit
- **00250** Disable transmit Code39 check digit
Enable Code93 Multi-Verification

Enable Code128

Enable Code128 Multi-Verification

Code 128

Enable Code128

Enable Code128 Multi-Verification

Codabar

Enable Codabar

Disable Codabar

Disable Code93 Multi-Verification

Disable Code128

Disable Code128 Multi-Verification

Disable Codabar
Transmit Codabar Start/Stop Character

Enable Codabar Multi-Verification

Interleaved 2 of 5

Enable Interleaved 2 of 5

Enable Interleaved 2 of 5 Multi-verification

Industrial 2 of 5

Enable Industrial 2 of 5

Disable Industrial 2 of 5
China Post

Enable China Post

Enable China Post

Disable China Post

MSI

Enable MSI

Enable MSI Multi-Verification

Disable MSI Multi-Verification

EAN-8

Enable EAN-8

Disable EAN-8
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>00471</td>
<td>Transmit EAN-8 check digit</td>
</tr>
<tr>
<td>00361</td>
<td>Enable EAN-13</td>
</tr>
<tr>
<td>00461</td>
<td>Transmit EAN-13 Check Character</td>
</tr>
<tr>
<td>00481</td>
<td>Enable Convert EAN-13 to ISBN</td>
</tr>
<tr>
<td>01501</td>
<td>Enable Convert EAN-13 to ISSN</td>
</tr>
<tr>
<td>00470</td>
<td>Do not transmit EAN-8 check digit</td>
</tr>
<tr>
<td>00360</td>
<td>Disable EAN-13</td>
</tr>
<tr>
<td>00460</td>
<td>Do not Transmit EAN-13 Check Character</td>
</tr>
<tr>
<td>00480</td>
<td>Disable Convert EAN-13 to ISBN</td>
</tr>
<tr>
<td>01500</td>
<td>Disable Convert EAN-13 to ISSN</td>
</tr>
</tbody>
</table>
**UPC-A**

- 00341
  - Enable UPC-A
- 00421
  - Transmit UPC-A check digit
- 00391
  - Enable Convert UPC-A to EAN-13
- 00340
  - Disable UPC-A
- 00420
  - Do not transmit UPC-A check digit
- 00390
  - Disable Convert UPC-A to EAN-13

**UPC-E**

- 00351
  - Enable UPC-E
- 00431
  - Transmit UPC-E check digit
- 00350
  - Disable UPC-E
- 00430
  - Do not transmit UPC-E check digit
UPC/EAN Add-on Digits

- Enable Convert UPC-E to UPC-A
  - **00381**
  - Disable Convert UPC-E to UPC-A
  - **00380**

*Disable UPC/EAN Add-on Digits

- **00550**
- Enable UPC/EAN 2-Digit Add-on Code
  - **00551**

Enable 5-Digit Add-On Code

- **00552**
- Enable UPC/EAN 2 or 5 Digit Add-on Code
  - **00553**

Enable UPC/EAN Multi-verification

- **00541**
- Disable UPC/EAN Multi-verification
  - **00540**
Configure Prefix or Suffix

Add Prefix
1. Scan code 'add prefix'. This step will clear all previous prefix configuration. Maximum you can add 32 codes.

2. Scan related prefix codes to configure the prefix.

For example:
① If you want to add 'MG' as prefixes, first scan code of M then scan Code of G.

② Scan 'Test', there're prefixes of MG before Test. That's MGTEST.

Configure Prefix or Suffix
1. Scan code 'add suffix'. This step will clear all previous suffix configuration. Maximum you can add 32 codes.
2. Scan related suffix codes to configure the suffix.

For example:

① If you want to add 'MG' as suffixes, first scan code of M then scan code of G.

```
$4D
M
```
```
$47
G
```

② Scan 'Test', there're suffixes of MG after Test. That's TESTMG.

**Hide Front/Back Codes**

**Hide Front Codes**
Scan barcode of 'Hide Front Codes'. All previous configuration will be cleared.

```
0C003
```

Scan the number that you want to hide. Maximum can hide 32 codes.

**For example**
If you want to hide front 2 codes, scan code of $02

```
$02
```
Scan test code '123456789' then you will get the result 3456789

**Hide Back Codes**
Scan barcode of 'Hide Back Codes'. All previous configuration will be cleared.

![Barcode Image]

Scan the number that you want to hide. Maximum can hide 32 codes.

**For example**
If you want to hide 2 codes from the end, scan code of $02

![Barcode Image]

Scan test code '987654321' then you will get the result 9876543.

**Hide Number xth Code from the front**
Scan barcode of '0C005'. All previous configuration will be cleared.

![Barcode Image]

Scan the number code of the position that you want to hide.

**For example**
If you want to hide the second code from the front, scan code of $02

![Barcode Image]

Scan test code '987654321' then you will get the result 97654321.
## Appendix A

<table>
<thead>
<tr>
<th>No.</th>
<th>Code ID</th>
<th>Barcode Type Code</th>
<th>Barcode Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td>00/01</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>A</td>
<td>2</td>
<td>CODE 128</td>
</tr>
<tr>
<td>3</td>
<td>C</td>
<td>3</td>
<td>EAN 8</td>
</tr>
<tr>
<td>4</td>
<td>D</td>
<td>4</td>
<td>EAN 13</td>
</tr>
<tr>
<td>5</td>
<td>D</td>
<td>5</td>
<td>ISBN</td>
</tr>
<tr>
<td>6</td>
<td>E</td>
<td>6</td>
<td>UPC-A</td>
</tr>
<tr>
<td>7</td>
<td>F</td>
<td>7</td>
<td>UPC-E</td>
</tr>
<tr>
<td>8</td>
<td>I</td>
<td>8</td>
<td>CODE 93</td>
</tr>
<tr>
<td>9</td>
<td>J</td>
<td>9</td>
<td>GS1 Omnidirectional</td>
</tr>
<tr>
<td>10</td>
<td>K</td>
<td>10</td>
<td>GS1 Limited</td>
</tr>
<tr>
<td>11</td>
<td>L</td>
<td>11</td>
<td>GS1 Expanded</td>
</tr>
<tr>
<td>12</td>
<td>M</td>
<td>12</td>
<td>CODE 39</td>
</tr>
<tr>
<td>13</td>
<td>N</td>
<td>13</td>
<td>Interleaved 2 of 5</td>
</tr>
<tr>
<td>14</td>
<td>O</td>
<td>14</td>
<td>Industrial 2 of 5</td>
</tr>
<tr>
<td>15</td>
<td>P</td>
<td>15</td>
<td>China post</td>
</tr>
<tr>
<td>16</td>
<td>Q</td>
<td>16</td>
<td>Matrix 2 of 5</td>
</tr>
<tr>
<td>17</td>
<td>S</td>
<td>17</td>
<td>MSI</td>
</tr>
<tr>
<td>18</td>
<td>U</td>
<td>18</td>
<td>CODE 11</td>
</tr>
<tr>
<td>19</td>
<td>V</td>
<td>19</td>
<td>Codebar</td>
</tr>
</tbody>
</table>
Appendix B:

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Description</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>0C001</td>
<td>Add Prefix</td>
<td>$24</td>
<td>$</td>
<td>$31</td>
<td>1</td>
</tr>
<tr>
<td>0C002</td>
<td>Add Suffix</td>
<td>$25</td>
<td>%</td>
<td>$32</td>
<td>2</td>
</tr>
<tr>
<td>0C003</td>
<td>Hide Front Codes</td>
<td>$26</td>
<td>&amp;</td>
<td>$33</td>
<td>3</td>
</tr>
<tr>
<td>0C004</td>
<td>Hide Back Codes</td>
<td>$27</td>
<td>,</td>
<td>$34</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$28</td>
<td>(</td>
<td>$35</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$29</td>
<td>)</td>
<td>$36</td>
<td>6</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$30</td>
<td>0</td>
<td>$37</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- 22 -</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
FAQ

1. Some barcodes can not be read, why?
   a. Dirty or unclear barcodes might not be read.
   b. Digital barcode displayed on phone, computers or tablets can’t be read by laser scanner.
c. The possible reason is that the configuration for some barcode types are not commonly used is off by default. You need to activate a specific barcode type to get it to work. Please contact the customer service team for help.

d. Scanner can not read 2d (QR, Datamatrix, PDF417)

2. Is there any barcodes for applying or remove suffix?
   Yes, please refer to the manual on the part of 'configure prefix or suffix.

3. The data can not be sent to my computer. Why?
   a. Please make sure scanner has quit from store mode. Because it will store your scans internally instead of instantly transmitting them to the connected device. You need to scan the 'uploading the data' to send the scanned codes to your connected device.
   b. The scanner has disconnected with the USB receiver (It will make 3 beeps when you scan the normal barcode and data can not be uploaded). In that case please refer to the part of 'configure the channel'.

4. There’s laser beam but scanner can not read any barcode or it makes 5 beeps after read a barcode.
   In this case, please charge power for the scanner immediately. Scanner can not read any barcode when it’s under low voltage.

**Support**
For any inquiries please do not hesitate to contact us.

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