# Barcode Scanner

## Manual Guide

51,57,58,61 LW/LM/LB-V3.0

# Table of Contents

If the scanner does not work or buzzer rang “Di-Di-Di-Di-Di”, please stop using the scanner and charging it immediately.

## Restore Defaults

2.4G/433M scanner default setting 2.4G/433M mode,use via USB receiver.

Bluetooth scanner default setting bluetooth mode,use via bluetooth pairing.

If the scanner does not work properly, Please scan the code“ Restore Defaults”

Restore Defaults

## Matching Operation(2.4G/433M Mode)

The scanner with the USB receiver has been paired by default, plug the U SB receiver in, and then scan the code “2.4G/433M mode” to use it.

If need to re-pair, please unplug the USB receiver and plug it again , scan s equentially the code "2.4G/433M mode " and " Match" in 20 seconds.

2.4G/433M Mode

Match

## Matching Operation(Bluetooth Mode)

### Only to Bluetooth-enabled products

1. Press the button, the buzzer rang ,the scanner starts.
2. Scan the “Bluetooth Mode” barcode.
3. Enable bluetooth function on your device till find out“Scanner xxx”, and click it to begin bluetooth pairing. Wait a few seconds, the buzzer rang “ Di--Di”, which means bluetooth pairing is successful.
4. Open a text, put the cursor in, Scan any barcode to see if the barcode can be uploaded.

Bluetooth Mode

| Bluetooth Mode Setup | |
|---|---|
| Bluetooth-HID | |
| Bluetooth-SPP | Bluetooth-BLE |
| **IOS Keyboard** | |
| Show/hide IOS keyboard<br>Note：Scan this barcode to show/hide the keyboard in IOS | |
| Show/hide IOS keyboard double-click –ON* | Show/hide IOS keyboard double-click -OFF |
| **Bluetooth connection settings** | |
| Off connection | Connection initialization |

## Working Mode

**Instant upload Mode**

Instant upload data to your computer.

Instant upload Mode

(1) Upload successful: The status light flashed and the buzzer rang " Di ".

(2) Upload failed: The red light flashed and the buzzer rang " Di---en".

If you receive upload-failed, Please confirm the match is successful.

If you receive upload-successful but no data，Please confirm the dongle in USB-HID mode.

**Storage Mode**

Scan and store barcode inside the scanner, and uploaded the data to your computer when you need it.

Storage Mode

Note: Instant upload mode and storage mode, the sound of reading barcode is different.

| | |
|---|---|
|  <br>Show total storage<br>(Show total number of memory) |  <br>Upload Data<br>(Upload Data to your computer) |
|  <br>Zero clearing<br>(Clear all data in memory, Please use it with caution) | |

1. Save successful：The status light flashed and the buzzer rang “ Di-en ”.
2. Save failed：The red light flashed and the buzzer range “ Di---en”, This indicates that there was not enough memory to save the bar code. Please upload the saved bar code by scanning “Upload Date” and then clear the Memory by scanning “Zero cleaning”.
3. Upload completed: the buzzer rang “ Di-do-en ”.

## Transmission speed

Set the delay between each character, the range of 00-99 can be set. the larger the value, the slower.

| | | |
|---|---|---|
|  <br>No delay |  <br>HID-speed 5 |  <br>HID-speed 10 |
|  <br>HID-speed 15 |  <br>HID-speed 20 |  <br>HID-speed 30 |
|  <br>HID-speed 40 |  <br>HID-speed 50 |  <br>HID-speed 60 |

1. In 2.4G or 433M mode, this parameter is stored in the dongle and defaults is "No delay". When there is no matching dongle, scanning this setting code is invalid.
2. In Bluetooth mode, this parameter is stored in the scanner, the default is "HID-speed 30".
3. In Bluetooth mode, If the data is lost, please set a slower HID speed.

## Trigger Mode

| | |
|---|---|
| Keys Trigger * | Continuous Mode |
| Continuous Mode can be used for a long shutdown time or never shut down. | |
| Auto-sense-OFF | Auto-sense-ON(optional) |

## Power and Standby

Battery Reserve (show battery level)

| Shutdown time setting | |
|---|---|
| 90s | 2min* |
| 5min | 30min |
| 60min | 166min40s |
| Not shutdown | Shutdown |

## Buzzer Setup

| | |
|---|---|
| Turn on all sounds* | Turn off all sounds |
| Low volume | High volume * |

## End Character

| End character is used to mark the end of a barcode data. | |
|---|---|
|  CR * |  LF |
|  Tab |  CR+LF |
|  None | |

## Capital & Lowercase

| | |
|---|---|
|  Swap capital/lowercase |  All lowercase |
|  All capital |  Don't convert * |

## Duplicate barcode upload Setup

For a period of time, the same barcode is not allowed to be read continuously to avoid repeated upload.

| | |
|---|---|
|  Duplicate detection-OFF* (upload duplicate barcode) |  Duplicate detection-ON (Unable to upload duplicate barcode) |

# Barcode Parameter Settings

## UPCA

| | |
|---|---|
|  UPCA-ON* |  UPCA-OFF |
| Check Digit：UPCA data is 12 bits, the 12th bit is the check digit, Default output. | |
|  Output UPCA check digit-ON* |  Output UPCA check digit-OFF |
| System character：The first digit of UPCA, Default output. | |
|  Output UPCA system character-ON* |  Output UPCA system character-OFF |
| UPCA to EAN13 | |
| UPCA to EAN13 by adding a "0" in front of it, and the type is converted to EAN13. | |
|  UPCA to EAN13-ON |  UPCA to EAN13-OFF* |

## UPCE

| | |
|---|---|
|  UPCE-ON* |  UPCE-OFF |
| Check Digit：UPCE data is 8 bits, the eighth bit is the check digit, Default output. | |
|  Output UPCE check digit-ON* |  Output UPCE check digit-OFF |
| System character：The first digit of UPCE, Default output. | |
|  Output UPCE system character-ON* |  Output UPCE system character-OFF |
| UPCE to UPCA | |
| UPCE can be extended to UPCA, and the type is converted to EAN13. | |
|  UPCE to UPCA-ON |  UPCE to UPCA-OFF* |

## EAN13

| | |
|---|---|
|  EAN13-ON* |  EAN13-OFF |
| Check Digit：EAN13 data is 13 bits, the 13th bit is the check digit, Default output. | |
|  Output EAN13 check digit-ON* |  Output EAN13 check digit-OFF |
|  Output EAN13 country code-ON* |  Output EAN13 country code-OFF* |
| EAN13 to ISSN/ISBN | |
| The 977 header is used for ISSN and 978 for ISBN. | |
|  EAN13 to ISSN-ON |  EAN13 to ISSN-OFF* |
| Set ON, the“ 977” before the barcode is deleted, and the type is converted to ISSN. | |
|  EAN13 to ISBN-ON |  EAN13 to ISBN-OFF* |
| Set ON, the“ 978” before the barcode is deleted, and the type is converted to ISBN. | |

## EAN8

| | |
|---|---|
|  EAN8-ON* |  EAN8-OFF |
| Check Digit：EAN8 data is 8 bits, the eighth bit is the check digit, Default output. | |
|  Output EAN8 check digit-ON* |  Output EAN8 check digit-OFF |
|  Output EAN8 country code-ON* |  Output EAN8 country code-OFF |

## UPC&EAN Extra code

| | | |
|---|---|---|
|  UPC/EAN extra-code-OFF* |  UPC/EAN 2 Extra-code |  UPC/EAN 5 Extra-code |
|  UPC/EAN 2/5 Extra-code |  UPC/EAN Must have 2/5 Extra-code | |

## Code39

| | |
|---|---|
|  Code39-ON* |  Code39-OFF |
|  Full-ASCII-OFF* |  Full-ASCII-ON |
| Code39 data can include all ASCII characters, Set ON to read full ASCII characters. | |
|  Output Code39 Start/Stop character-OFF* |  Output Code39 Start/Stop character-ON |
| Character * as the Start/Stop character of code 39. | |

## Code32

| | |
|---|---|
| Code32 is extended by Code39, When Code32 is enabled, Code39 that complies with Code32 rules will also be output as Code32 first. | |
|  Code32-OFF* |  Code32-ON |
|  Output Code32 check digit-OFF |  Output Code32 check digit-ON* |
|  Output Code32 Prefix A -OFF |  Output Code32 Prefix A -Oon* |

## Code128

| | |
|---|---|
|  Code128-ON* |  Code128-OFF |

## Code93

| | |
|---|---|
|  Code93-ON* |  Code93-OFF |

## Code11

| | |
|---|---|
|  Code11-ON |  Code11-OFF* |

Code11 check digit

Code11 barcode data contains check digit, which can be the last 1 (C check) or 2 (CK check) characters of the data.

| | |
|---|---|
|  Code11 No check* |  Code11 C/CK check |
|  Code11 C check |  Code11 CK check |

C check：One character check, CK check：Two characters check.

No check：Code11 Without check, all check digit will be output.

C/CK check：Code11 Automatic C / CK check, all check digits are not output.

C check：Code11 perform C check, Do not output 1 check digit, At the same time, the scanner reads only the Code11 by C check.

CK check：Code11 perform CK check, Do not output 2 check digits, At the same time, the scanner reads only the Code11 by CK check.

## Codabar

| | |
|---|---|
|  Codabar-ON* |  Codabar-OFF |

CODABAR Start/Stop character

Codabar Start/Stop characters are not output by default, When editing the Codabar, you can select the A,B,C,D characters as the Start/Stop characters.

| | |
|---|---|
|  Output Codabar Start/Stop character -OFF* |  Output Codabar Start/Stop character -ON |
|  Output Start/Stop character - allow 1 |  Output Start/Stop character - allow 2 |

allow 1：Start/stop characters are converted from uppercase to lowercase.

allow 2：Start characters are converted from uppercase to lowercase, Stop characters changes as follows: A to t, B to n, C to *, D to e.

## Industrial 2 of 5

| | |
|---|---|
|  Industrial 2 of 5 -ON* |  Industrial 2 of 5 -OFF |

## Interleaved 2 of 5

| | |
|---|---|
|  Interleaved 2 of 5-ON* |  Interleaved 2 of 5-OFF |

## MSI

| | |
|---|---|
|  MSI -ON |  MSI -OFF* |

## Pharmacode

| | |
|---|---|
|  Pharmacode –ON |  Pharmacode -OFF* |

## GS1

| | |
|---|---|
| Contains:GS1 Data Bar，GS1 Data Bar Limited，GS1 Data Bar Expanded. | |
|  GS1-ON |  GS1-OFF* |
| GS1 Data Bar check digit<br>GS1 Data Bar : The last bit is check digit. | |
|  Output GS1 Data Bar check digit -OFF* |  Output GS1 Data Bar check digit -ON |
| GS1 Data Bar Limited check digit<br>GS1 Data Bar Limited : The last bit is check digit. | |
|  Output GS1 Limited check digit -OFF* |  Output GS1 Limited check digit -ON |

# Data editing

| | | |
|---|---|---|
| Insert Characters | | Delete characters |
| Barcode types(Barcode data: 068000-068018) | | |
| All barcode types | UPCE | UPCA |
| EAN8 | EAN13 | ISBN/ISSN |
| Code39 | Code128 | Code93 |
| Codabar | Interleaved 2 of 5 | industrial 2 of 5 |
| MSI | Code11 | China post |
| GS1D | GS1L | GS1E |
| Code32 | Do not scan = All barcode types. | |
| Set save location (Barcode data: 068100-068107)<br>(Different group Settings can take effect at the same time) | | |
| Group 1 | Group 2 | Group 3 |
| Group 4 | Group 5 | Group 6 |
| Group 7 | Group 8 | Do not scan = Group 1 |
| Edit location | | |
| Before barcode | **From which place to start? Setup by barcode in "ASCII Barcode Table".** | After barcode |
| Save to take effect | | |
| Save Settings | | Clear settings |

## Example: Insert character

In the process of setting, scan the irrelevant barcode, the scanner will exit setting status.

Please scan in order 1,2,3, …

Example: Code128=123456789

| | Insert Ab before | Insert Cd from the third | Insert Ef after |
|---|---|---|---|
| 1 | Insert Characters | | |
| 2 | All barcode types<br>（Omit this step, default all barcode types） | | |
| 3 | Group 1<br>（Omit this step, default Group 1） | | |
| 4 | Before barcode | 003 ETX | After barcode |
| 5 | 065 A | 067 C | 069 E |
| 6 | 098 b | 100 d | 102 f |
| | Each group can insert within 10 characters | | |
| 7 | Save Settings | | |
| Setup result | | | |
| Ab123456789 | | 123Cd456789 | 123456789Ef |
| Clear insert character setting, Please scan in order 1,2. | | 1, Insert Characters | 2, Clear settings |

1, set different bar code type, make this setting to this kind of barcode is effective.

2, set different group, make different Settings take effect at the same time

## Example: Delete character

In the process of setting, scan the irrelevant barcode, the scanner will exit setting status.

Please scan in order 1,2,3, …

Example: Code128=123456789

| | Delete 1 bit before | Delete 3 bit from the third | Delete 3 bit after |
|---|---|---|---|
| 1 | Delete characters | | |
| 2 | All barcode types<br>（Omit this step, default all barcode types） | | |
| 3 | Group 1<br>（Omit this step, default Group 1） | | |
| 4 | Before barcode | 003 ETX | After barcode |
| 5 | 001 SOH | 002 STX | 003 ETX |
| 6 | Save Settings | | |

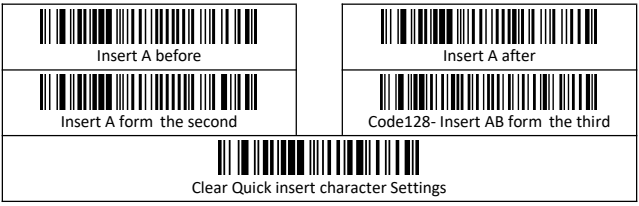
| Setup result | | |
|---|---|---|
| 23456789 | 1236789 | 123456 |
| Clear delete character setting, Please scan in order 1,2. | 1, Delete characters | 2, Clear settings |

1, set different bar code type, make this setting to this kind of bar code is effective.

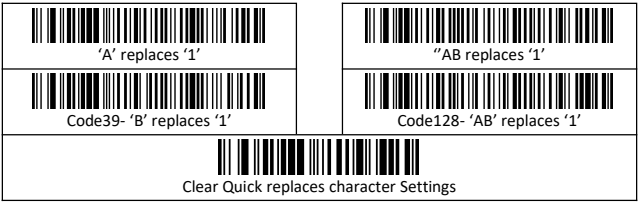
2, set different group, make different Settings take effect at the same time.

## Quick delete character


## Quick insert character




## Quick replaces character

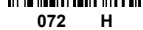
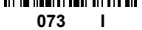
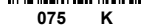
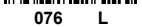


## Appendix 1：CODE ID

|  Send ID-OFF * | |  Send ID-ON | |
|---|---|---|---|
| Barcode type | Barcode ID | ON/OFF default | Minimum digits |
| UPCA | b | ON | No |
| UPCE | c | ON | No |
| EAN13 | e | ON | No |
| EAN8 | d | ON | No |
| ISBN,ISSN | f | OFF | No |
| Code39 | a | ON | 1 |
| Code32 | C | OFF | No |
| Code128 | g | ON | 2 |
| Code11 | M | OFF | 4 |
| Code93 | h | ON | 1 |
| Codabar | k | ON | 4 |
| 交叉25码 | i | ON | 4 |
| 工业25码 | j | ON | 4 |
| Pharmacode | P | OFF | 2 |
| MSI | I | OFF | 4 |
| GS1D | D | OFF | No |
| GS1L | L | OFF | No |
| GS1E | E | OFF | No |

## Appendix 2: ASCII Barcode Table

| | | |
|---|---|---|
|  000 NUL/SP |  001 SOH |  002 STX |
|  003 ETX |  004 EOT |  005 ENQ |
|  006 ACK |  007 BEL |  008 Back Space |
|  009 HT/TAB |  010 LF |  011 VT |
|  012 FF |  013 CR/ENTER |  014 SO |
|  015 SI |  016 DLE |  017 DC1 |
|  018 DC2 |  019 DC3 |  020 DC4 |
|  021 NAK |  022 SYN |  023 ETB |
|  024 CAN |  025 EM |  026 SUB |
|  027 ESC |  028 FS |  029 GS |
|  030 RS |  031 US |  032 SP |
|  033 ! |  034 " |  035 # |
|  036 $ |  037 % |  038 & |

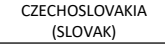
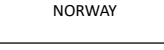
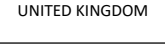
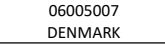
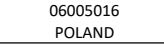
| | | |
|---|---|---|
|  039 ' |  040 ( |  041 ) |
|  042 * |  043 + |  044 , |
|  045 - |  046 . |  047 / |
|  048 0 |  049 1 |  050 2 |
|  051 3 |  052 4 |  053 5 |
|  054 6 |  055 7 |  056 8 |
|  057 9 |  058 : |  059 ; |
|  060 < |  061 = |  062 > |
|  063 ? |  064 @ |  065 A |
|  066 B |  067 C |  068 D |
|  069 E |  070 F |  071 G |
|  072 H |  073 I |  074 J |
|  075 K |  076 L |  077 M |

| | | |
|---|---|---|
|  078 N |  079 O |  080 P |
|  081 Q |  082 R |  083 S |
|  084 T |  085 U |  086 V |
|  087 W |  088 X |  089 Y |
|  090 Z |  091 [ |  092 \ |
|  093 ] |  094 ^ |  095 _ |
|  096 ` |  097 a |  098 b |
|  099 c |  100 d |  101 e |
|  102 f |  103 g |  104 h |
|  105 i |  106 j |  107 k |
|  108 l |  109 m |  110 n |
|  111 o |  112 p |  113 q |
|  114 r |  115 s |  116 t |

| | | |
|---|---|---|
|  117 u |  118 v |  119 w |
|  120 x |  121 y |  122 z |
|  123 { |  124 \| |  125 } |
|  126 ~ |  127 DEL |  128 F1 |
|  129 F2 |  130 F3 |  131 F4 |
|  132 F5 |  133 F6 |  134 F7 |
|  135 F8 |  136 F9 |  137 F10 |
|  138 F11 |  139 F12 |  140 l_Shift on |
|  141 l_Shift off |  142 r_Shift on |  143 r_Shift off |
|  144 l_Alt on |  145 l_Alt off |  146 r_Alt on |
|  147 r_Alt off |  148 l_Ctrl on |  149 l_Ctrl off |
|  150 r_Ctrl on |  151 r_Ctrl off |  152 /(KP) |
|  153 *(KP) |  154 -(KP) |  155 +(KP) |

| | | |
|---|---|---|
|  156 _(KP) |  157 Enter(KP) |  158 0(KP) |
|  159 1(KP) |  160 2(KP) |  161 3(KP) |
|  162 4(KP) |  163 5(KP) |  164 6(KP) |
|  165 7(KP) |  166 8(KP) |  167 9(KP) |
|  168 Inert |  169 Delete |  170 Home |
|  171 End |  172 Page Up |  173 Page Down |
|  174 Up |  175 Down |  176 Left |
|  177 Right |  178 Center |  179 Insert |
|  180 Delete |  181 Home |  182 End |
|  183 Page Up |  184 Page Down |  185 Up |
|  186 Down |  187 Left |  188 Right |
|  189 |  190 Num Lock |  191 caps lock |
|  192 scroll lock | | |

## Appendix 3: Language

| | | |
|---|---|---|
|  06005000 UNITED STATES |  06005009 FRANCE |  06005018 SERBIA/YUGOSLAVIA |
|  06005001 BELGIUM |  06005010 GERMANY |  06005019 SLOVENIA |
|  06005002 BRAZIL |  06005011 HUNGARY |  06005020 SPAIN |
|  06005003 CANADIAN-FRENCH |  06005012 ITALY |  06005021 SWEDEN |
|  06005004 CROATIA |  06005013 LATIN AMERICA |  06005022 SWITZERLAND (FRENCH) |
|  06005005 CZECHOSLOVAKIA (CZECH) |  06005014 NETHERLANDS |  06005023 SWITZERLAND (GERMAN) |
|  06005006 CZECHOSLOVAKIA (SLOVAK) |  06005015 NORWAY |  06005024 UNITED KINGDOM |
|  06005007 DENMARK |  06005016 POLAND |  06005025 UNIVERSAL |
|  06005008 FINLAND |  06005017 PORTUGAL | |