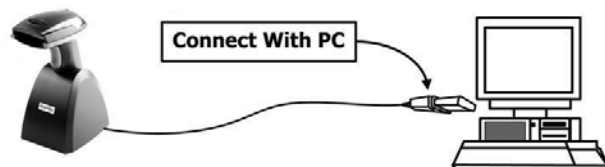**RIOTEC**

# Programming Quick Guide -iLS6300JBQ/iLS6300JBM

## Connecting the Scanner

**Be sure that PC is turned OFF,** before Connect scanner cable to the PC USB port on the PC as below described, Ensure that all connections are ready, and turn on your PC.


Connect With PC

1. Please switch ON and charge scanner for 4~5 hours at first time before use. Scanner switch shown on Fig. 2.
2. After switch ON, the Orange LED will flash following with 3 beep-sounds. The RED LED will be OFF while it links to cradle within Bluetooth radio range.
3. If RED LED is continual ON, please re-plug USB cable, then, scan the 3 barcodes on the bottom of cradle sequentially. (Shown on Fig. 3 From 1 to 3).
4. Charging issue: Cradle works as charger when putting scanner on it. Even if the scanner's battery is full, the cradle will continue to supply power to the scanner. We suggest you to remove scanner from cradle when scanner is charged fully

*  **Note:** Please install PL-2303 driver for **iLS6300JBM**


Fig. 1    Fig. 2    Fig. 3

| LED Indicator Information ||
|---|---|
| Orange LED ON | Full charged |
| Orange LED Flashing | Charging / Low battery |
| Red LED ON | Offline / out of service |
| Green LED ON | Good read |
| Orange LED ON | Good read (Batch mode) |

**Remark:**
* When the battery power is too low, the Orange LED will flash and beep once. Scanner should be charged immediately.
* If scanner shuts down it is recommended to charge it fully before turning it back on.
* Under power-saving mode, there will not be LED indication when charging.

## Reset Configuration to Defaults

(scan from A1 to A4 for iLS6300JBQ or B1 to B3 for iLS6300JBM)

**iLS6300JBQ**      **iLS6300JBM**

A1        B1   

A2        B2   

A3        B3   

A4   

**Note:** Please install PL-2303 driver for **iLS6300JBM**

## There are two operating modes on the scanner

| 1.Data Transmission mode (Default) |||
|---|---|---|
|  |||
| It is a necessary to scan "clean memory data" when switching between these two modes. |||
|  | **Within Bluetooth radio range** | **Beyond Bluetooth radio range** |
| Data read | Transmit data to PC/terminal directly | Save data into scanner's memory, scanner will transmit data to PC/ terminal automatically when back to Bluetooth radio range. |
|  | Enter Data Storage mode ||
| LED | Green/ Orange LED flashes followed by 3 beeps. |  |

| 2.Data Storage mode (Batch Mode) ||
|---|---|
|  ||
| It is a necessary to scan "clean memory data" when switching between these two modes. ||
| Data read | Save data directly to scanner's memory, It will transmit the data to PC/ terminal after you scan the **Transmit memory data** code. To delete data please scan the **Clean memory data** code. |
|  | Enter Data Transmission mode |
| LED | Green/Orange LED flashes followed by 3 beeps. |
|  | Always **Clean memory data** before switching to Data Transmission Mode. Otherwise Red/ Orange LED will flash with one long beep and will not switch modes. |

## Under Data storage Mode

The data can be keep or delete by option after transmit

      

Keep the data         Delete the data
**(Default)**



**Transmit memory data**
Green/Orange LED Flashes followed by 3 beeps



**Clean memory data**
Green/Orange LED flashes followed by 3 beeps
The barcode data which is stored in the memory will be deleted.

# RIOTEC
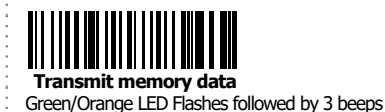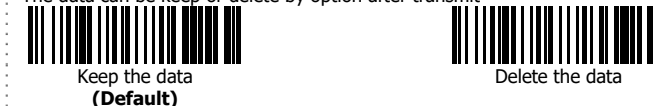
## Trigger Mode

||||||||||| Trigger always
(Trigger available at any time)

||||||||||| Trigger standard **(Default)**
(Trigger available, after data sent to the device)

## Transmission Speed

Transmission speed is dependent on your device. In order not to lose data, please choose the correct speed. Middle-speed is the Default.

| | |
|---|---|
| High-speed Transmission | Ultra Slow-speed **1** transmission |
| Middle-speed Transmission (**Default**) | Ultra Slow-speed **2** transmission |
| Slow-speed Transmission | Ultra Slow-speed **3** transmission |

## Bluetooth Auto-connection

||||||||||| Bluetooth Auto-connection **ON**:
When out of range, it will keep trying to connect to device, scanner will not enter power-saving mode.

||||||||||| Bluetooth Auto-connection **OFF**:
When you are out of BT signal range, scanner will stop sending auto-connection signal to device after 2 minutes. During this time, it will not enter power-saving mode.
Once you are back within range, press trigger to connect to the device. **(Default)**

## Keyboard Country(For USB HID only)

Scan the appropriate country code as below to program the keyboard layout for your country or language. As a general rule, the following characters are supported, but need special care for countries other than the United States: @ | $ # { } [ ] = / ` \ < > ~

| | |
|---|---|
| USA (Original setting) | Italian |
| Norway | France |
| Germany | Vietnam |
| Sweden | Spain |
| Denmark | Portugal |
| Switzerland (F) | Hungary |
| Latin America | Icelandic |
| Brazil | Poland |
| Belgium | Turkey F |

| | |
|---|---|
| Bulgarian Latin | Turkey Q |
| Finland | Japan |
| Netherlands | Korea |
| Thai | Russia |
| Switzerland German | |

*The different keyboard language option starts from June. 2017.

## Power-saving Mode

||||||||||| Power-saving mode OFF

||||||||||| Power-saving mode ON **(Default)**:
Enter power-saving mode after 3-minute inactivity. This function converses battery power. When you press "SCAN/Power ON" button, it will wake up and begin to scan.

||||||||||| Power-saving mode ON:
Enter power-saving mode after 10-minute inactivity. This function converses battery power. When you press "SCAN/Power ON" button, it will wake up and begin to scan.

*When charging, the scanner will not enter power-saving mode automatically

# RIOTEC

## How to append a "prefix" or a "suffix" to the barcode data

prefix          suffix

1. Scan above configuration code for Prefix or Suffix
2. Enter the required values (right, numeric barcode) for Prefix or Suffix using the hex values for the desired HEX values from "Prefix & Suffix TABLE (blew page)"
3. Then, end by scanning Code X (below, right)

* The max. of special characters is 5.
* When you append 1~4 required values for Prefix or Suffix, it must end with Code X.
* It doesn't need Code X, if you append 5 values to barcode data.

## How to delete Prefix or Suffix
1. Scan above configuration code for Prefix or Suffix
2. Enter the "0" "0" (above, right)
3. Then end by scanning Code X (below, right)

## Numeric barcode for settings

0    6    C
1    7    D
2    8    E
3    9    F
4    A    X
5    B

## Prefix & Suffix TABLE

| HEX | HID (SPP) | HEX | HID (SPP) | HEX | | HEX | | HEX | | HEX | |
|-----|-----------|-----|-----------|-----|---|-----|---|-----|---|-----|---|
| 01 | CTRL A (SOH) | 19 | CTRL Y (EM) | 20 | SPACE | 38 | 8 | 50 | P | 68 | h |
| 02 | CTRL B (STX) | 1A | CTRL Z(SUB) | 21 | ! | 39 | 9 | 51 | Q | 69 | i |
| 03 | CTRL C (ETX) | 1B | ESC (ESC) | 22 | " | 3A | : | 52 | R | 6A | j |
| 04 | CTRL D (EOT) | 1C | CTRL \ (FS) | 23 | # | 3B | ; | 53 | S | 6B | k |
| 05 | CTRL E (ENQ) | 1D | CTRL ] (GS) | 24 | $ | 3C | < | 54 | T | 6C | l |
| 06 | CTRL F (ACK) | 1E | CTRL ^ (RS) | 25 | % | 3D | = | 55 | U | 6D | m |
| 07 | CTRL G (BEL) | 1F | CTRL _ (US) | 26 | & | 3E | > | 56 | V | 6E | n |
| 08 | Backspace (BS) | | | 27 | ' | 3F | ? | 57 | W | 6F | o |
| 09 | Tab (HT) | HEX | HID Only | 28 | ( | 40 | @ | 58 | X | 70 | p |
| 0A | CTRL J (LF) | 80 | F1 | 29 | ) | 41 | A | 59 | Y | 71 | q |
| 0B | CTRL K (VT) | 81 | F2 | 2A | * | 42 | B | 5A | Z | 72 | r |
| 0C | CTRL L (FF) | 82 | F3 | 2B | + | 43 | C | 5B | [ | 73 | s |
| 0D | Enter (CR) | 83 | F4 | 2C | , | 44 | D | 5C | \ | 74 | t |
| 0E | CTRL N (SO) | 84 | F5 | 2D | - | 45 | E | 5D | ] | 75 | u |
| 0F | CTRL O (SI) | 85 | F6 | 2E | . | 46 | F | 5E | ^ | 76 | v |
| 10 | CTRL P (DLE) | 86 | F7 | 2F | / | 47 | G | 5F | _ | 77 | w |
| 11 | CTRL Q (DC1) | 87 | F8 | 30 | 0 | 48 | H | 60 | ` | 78 | x |
| 12 | CTRL R (DC2) | 88 | F9 | 31 | 1 | 49 | I | 61 | a | 79 | y |
| 13 | CTRL S (DC3) | 89 | F10 | 32 | 2 | 4A | J | 62 | b | 7A | z |
| 14 | CTRL T (DC4) | 8A | F11 | 33 | 3 | 4B | K | 63 | c | 7B | { |
| 15 | CTRL U (NAK) | 8B | F12 | 34 | 4 | 4C | L | 64 | d | 7C | | |
| 16 | CTRL V (SYN) | | | 35 | 5 | 4D | M | 65 | e | 7D | } |
| 17 | CTRL W (ETB) | | | 36 | 6 | 4E | N | 66 | f | 7E | ~ |
| 18 | CTRL X (CAN) | | | 37 | 7 | 4F | O | 67 | g | | |

## 1D Symbologies – 1

**CODABAR**
ENABLE          DISABLE

**CODE 39**
ENABLE          DISABLE

**Interleaved 25**
ENABLE          DISABLE

**Industrial 25**
ENABLE          DISABLE

**ISSN**
ENABLE          DISABLE

**GS1DataBar**
ENABLE          DISABLE

**GS1Databar Limited**
ENABLE          DISABLE
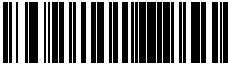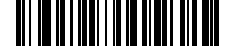
**GS1Databar Expanded**
ENABLE          DISABLE

# 1D Symbologies – 2

| ENABLE | Matrix 25 | DISABLE |
|--------|-----------|---------|
| ENABLE | CODE 93 | DISABLE |
| ENABLE | GS1-128 | DISABLE |
| ENABLE | UPC-A | DISABLE |
| ENABLE | UPC-E | DISABLE |
| ENABLE | EAN 8 | DISABLE |
| ENABLE | EAN 13 | DISABLE |
| ENABLE | ISBN | DISABLE |

# 2D Symbologies

**PDF 417**

ENABLE          DISABLE

**QR Code**

ENABLE          DISABLE

**Micro QR Code**

ENABLE          DISABLE

**Data Matrix**

ENABLE          DISABLE

**Aztec Code**

ENABLE          DISABLE

Quick guide is subject to change without notice.

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