



## RIOSCAN 2D barcode scanner

### Quick Guide



Model no.:

**iLS6302JS**  
**iLS6302KS**  
**iLS6302LS**  
**iLS6302NS**

### Introduction

Designed primarily for smartphone, the scanner is a 2D barcode scanner that allows you to scan various barcoded items and send data to smartphone.

Its in-built ZEBRA engine allows you to reliably read 2D barcodes on various shapes and is a great space-saver for busy or limited workspaces.

It supports not only iOS devices through Bluetooth communication, but also Android OTG devices through USB cable

### Delivery content

- \* Bluetooth Barcode scanner x 1
- \* Charging cradle x 1
- \* Holder for smartphone x 1
- \* USB cable x 1
- \* Quick Guide instructions x 1

### Limited Warranty

Riotec provides a one year limited warranty.

This warranty does not cover any product which has been subject to improper use, neglect or unauthorized repair or installation.

This warranty does not cover consumable parts. (Cables & batteries are consumables.)

### Safety instructions

- \* Never look into the laser beam and never point it at people or animals. Laser radiation can seriously damage your eyes.(for iLS6302KS)
- \* Do not point the laser beam at mirrors or other reflective surfaces. The uncontrolled, reflected beam may strike people or animals. (for iLS6302KS)
- \* Don't put scanner in places excessively high temperatures, such as expose under direct sunlight.
- \* Don't use scanner in extremely humid area or drastic temperature change
- \* The rechargeable battery is permanently built into the product and cannot be replaced.
- \* Never damage the rechargeable battery. Damaging the casing of the rechargeable battery might cause an explosion or a fire!

### Charging:

1. Switch on and charge the scanner for 3~4 hours before first usage as shown on Fig.2. Please shift the switch of the scanner to C mode (Charging mode) to charge.
2. The On and Off switch is located at the bottom of the handle. You may use a fine and thin stick, then carefully press into it until you hear a low clicking sound.
3. When you want to charge the smartphone & scanner, please use smartphone original USB power adapter.
4. The cradle functions as a charger for the scanner. Even if the scanner's battery is full, the cradle will continue to supply power to the scanner. We suggest removing the scanner from the cradle when fully charged.
5. When you charge the scanner with the smartphone, please enter Wired OTG mode & switch to "C- Charging mode".



Scanner supports **BT communication mode** (for iOS and Android) and **wired OTG communication mode** (For Android OTG devices only/ For wired mode, you must shift the scanner's switch to "O"; followed by scanning the code of **Wired OTG communication mode** if you are shifting back from BT).

\*Scan the following codes to switch in between the modes. It is crucial to scan the **Clean memory data** code on (Page 4 third column) before switching from Bluetooth Communication to Wired OTG communication.



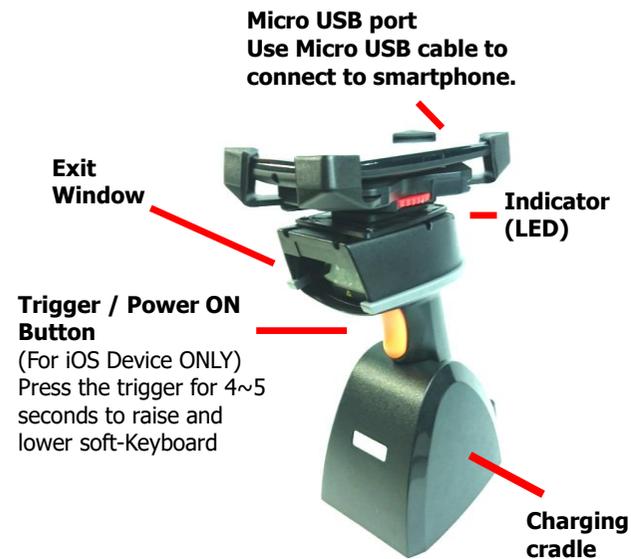
**Bluetooth communication**



**Wired OTG communication mode (default)**

### Operating elements

\* Please switch ON and charge scanner for 3~4 hours for the first usage.



### How to Connect to Smartphone via BT

1. Make sure the default is **BT mode** (Page 2 at the top of 1st column) & your device has BT HID or SPP profile.
2. Scan the code of **Bluetooth communication mode**.
3. Turn off Power-Saving mode on your smartphone/tablet
4. Then, choose HID or SPP profile and scan the following 2 settings codes before connecting to smartphone/tablet. (Either A1 → A2 or B1 → B2)  
If you don't know which profile to choose for your device, try HID first, then, SPP (SPP requires a specific driver).

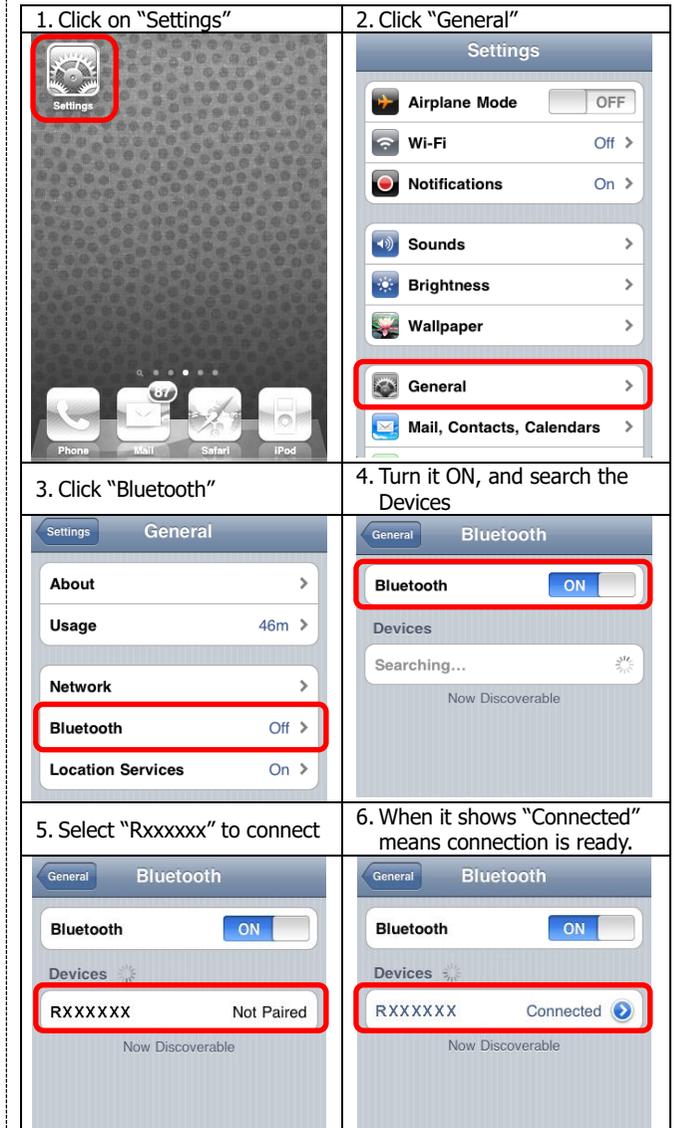
#### HID profile



#### SPP profile



4. Please complete the connection procedures as the above image.
5. After the devices are paired, the screen will show "Connected" beside the Bluetooth device that appears with an "R" followed by a series of alpha numerical number, and usually with a "Keyboard" icon.
5. Before using WordPad file or an appropriate APP, please set keyboard language of the device to **US English**. You may proceed to scan the barcodes and the barcode encrypted data will show on the cursor side. If the data cannot be transferred to the smartphone/tablet, please scan the **"Reset Configuration to Defaults"** setting codes (Page 3, column 1).



(example: pairing with iPhone)

**Notes 1:**

- \* This product complies with Bluetooth standards. The device that is used with this product must support the same SPP or HID standard. We cannot guarantee a connection before the product has been tested for Bluetooth devices with other profiles.
- \* The communication speed and range of the product may vary due to obstacles and radio interference between the product and device. Condition on the host device may also effect the communication speed and range of the scanner.

**Note 2:**

- \* When the battery power is too low, the Orange LED will flash and beep once. Scanner should be charged immediately. If the scanner shuts down, it is recommended to charge the scanner fully before turning it on.



Before entering BT mode, you must switch to right "C" (Charging mode) first.

Then, cradle can supply power to iOS / Android device (through micro USB cable) & scanner simultaneously.

Indicator (LED) Please check the "LED Indicator Information"

**How to Connect to Smartphone via OTG cable**

1. Make sure you scan the barcode for **wired OTG communication mode** (Page 2, left column, on the top), and that your Android device supports OTG functionality.
2. The Scanner must be in **"O" (OPERATION MODE)** (see below)
3. Connect the scanner to Android device through micro USB cable.
4. If the scanner had been connected through Bluetooth and entered to Data Storage Mode, make sure to scan on the **Clean memory data** code in order to change from Bluetooth to wired connection.
5. Open the smartphone or mobile device App, so the scanned data can be sent to the App directly, and you are all set to go.

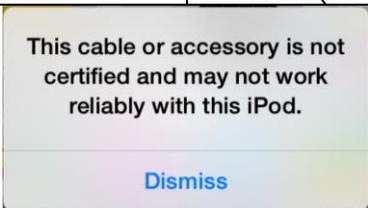


Switch to left: "O" (Operation mode) (data transmission)  
Switch to right: "C" (Charging mode)

Indicator (LED) Please check the "LED Indicator Information"

**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)



After the scanner connects to your iOS device and is inserted into the cradle, it may display the above message. If this happens, remove and reinsert device into cradle.

**Keyboard Country (Wired OTG mode 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



Hungary

**Reset Configuration to Defaults**

(scan from A1 to A2 for HID profile or B1 to B3 for SPP profile)

**HID profile**

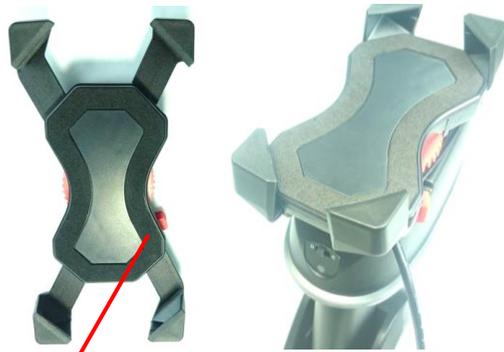
**SPP profile**





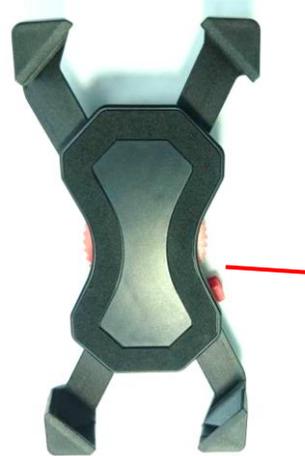
4 Elevated Studs to fit into the 4 holes of the Holder's back.

Holder's back with 4 holes to lock up with the scanner



Holder's front side: Make sure the red switch is on the right side (exactly as this picture shows), when fitting the 4 holes of the holder to the 4 studs of the scanner

1. Set the mobile device holder by having the side of **open** and **close red switch** on the right side of the scanner as presented on the above image.
2. **CAUTION:** Please do not pull or press on any of the 4 extensions or legs of the holder, for it can unbalance and disrupt the normal functionality of the holder's 4 extensions.
3. Place the mobile device **holder** lightly on the top of the base, so the 4 elevated studs fit into the 4 holes of the holder.



1. Holder's front side: In order to shrink or spread the 4 extensions, shift and Hold the red switch to **Open** while you rotate the wheel either way,
2. **Do not pull or push the 4 extensions, nor extend the wheel across the limit**, for it can disrupt the balance and functionality of the holder.
3. **Use mobile device less than 14.5 cm in length.**

4. Press the holder to the scanner firmly and **draw back very carefully** until you hear a low clicking sound.
5. To **separate the holder from the scanner**: Press on the holder towards the scanner firmly, then **push it forward carefully**.
6. **IMPORTANT:** We do not recommend the repetitive action of detaching and reattaching the holder.
7. Place the smartphone onto holder (**Recommendation:** use mobile device less than 14.5 cm in length), plug the micro usb to the mobile device, then close in the extensions.
8. Push in the tiny rectangular switch at the bottom of the handle, then switch the scanner to Operation mode, now it can scan directly to the mobile's APP. The user may choose to connect through Bluetooth as well (Please review the different ways of connection at page 2 and 3, for a more detail explanation).



## 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 smartphone/tablet directly	Save data in scanner's memory, scanner will transmit data to smartphone/tablet automatically after getting back to Bluetooth radio range.
<b>Enter Data Storage mode</b>		
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 data to smartphone/tablet after you scan the <b>Transmit memory data</b> code. To delete data, please scan the <b>Clean Memory Data</b> code.	
<b>Enter Data Transmission mode</b>		
LED	Green/ Orange LED flashes followed by 3 beeps.	
	Always <b>Clean Memory Data</b> before switching to Data Transmission Mode. Otherwise Red/ Orange LED will flash with one long beep sounds and will not switch modes.	

#### A. Data Transmission mode (Default)

1. When you are out of BT signal range, the data you scan will be saved to memory. Once you are back within range, the data will be sent to smartphone/tablet automatically.



**Transmit memory data**

Green/Orange LED flashes followed by 3 beeps

The barcode data which is stored in the memory will be sent to smartphone/tablet directly. (under Batch mode, within Bluetooth service range)



**\*Clean Memory Data**

Green/Orange LED flashes followed by 3 beeps.

The barcode data which is stored in the memory will be deleted. You can then switch modes.

#### B. Data Storage mode(Batch mode)

1. Data Storage mode (Batch mode): When you scan the barcodes, the data will be saved directly to scanner's memory. After you scan the **"Transmit memory data"** code (above right), the data will be sent to smartphone/tablet.
2. Before you can continue to scan or switch modes, you must first delete the data stored in the memory. To do this, scan the **"Clean Memory Data"** code.

## 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.



## Power-saving Mode



Power-saving mode OFF



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

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

## Battery information



When you scan this setting code, scanner will output the battery information to device.



Output battery information automatically – **Enable** will send data to device every 30 seconds.



Output battery information automatically – **Disable**.

The output format of battery information is as below:

For example: %^4^%

%^NUMBER^% Number is from 0~4.

4 means 80%~100%

3 means 55%~80%

2 means 30%~55%

1 means 10%~30%

0 means under 10% -- **When output reads "0", it means low battery power and device should be charged immediately.**

## Redundancy Level

This scanner offers two levels of decode redundancy. Select higher redundancy levels for decreasing levels of bar code quality. As redundancy levels increase, the decoder's aggressiveness decreases.

Select the redundancy level appropriate for the bar code quality.



**Redundancy Level 1**  
barcode must be read twice successfully before being decoded



**Redundancy Level 2**  
barcode must be read three times successfully before being decoded

## 1D Symbolgies -1



**UPC-A**



**UPC-E**



**EAN-8**



**EAN-13**



**CODABAR**



**Code 39**  
**FULL ASCII**



**Trioptic**  
**Code 39**



**Code 32**



## 1D Symbologies -2

ENABLE 	<b><u>Chinese 25</u></b>	DISABLE 
ENABLE 	<b><u>Matrix 25</u></b>	DISABLE 
ENABLE 	<b><u>GS1 DataBar</u></b>	DISABLE 
ENABLE 	<b><u>GS1 DataBar Limited</u></b>	DISABLE 
ENABLE 	<b><u>GS1 DataBar Expanded</u></b>	DISABLE 
ENABLE 	<b><u>Composite CC-C</u></b>	DISABLE 
ENABLE 	<b><u>Composite CC-A/B</u></b>	DISABLE 
ENABLE 	<b><u>Composite TLC 39</u></b>	DISABLE 

## 1D Symbologies -3

ENABLE 	<b><u>Code 39</u></b>	DISABLE 
ENABLE 	<b><u>ISBT 128</u></b>	DISABLE 
ENABLE 	<b><u>MSI</u></b>	DISABLE 
ENABLE 	<b><u>CODE 93</u></b>	DISABLE 
ENABLE 	<b><u>CODE 11</u></b>	DISABLE 
ENABLE 	<b><u>Interleaved 25</u></b>	DISABLE 
ENABLE 	<b><u>Discrete 25</u></b>	DISABLE 

## 2D Symbologies

ENABLE 	<b><u>PDF 417</u></b>	DISABLE 
ENABLE 	<b><u>Micro PDF 417</u></b>	DISABLE 
ENABLE 	<b><u>Data Matrix</u></b>	DISABLE 
ENABLE 	<b><u>Maxicode</u></b>	DISABLE 
ENABLE 	<b><u>QR CODE</u></b>	DISABLE 
ENABLE 	<b><u>Micro QR CODE</u></b>	DISABLE 
ENABLE 	<b><u>Aztec</u></b>	DISABLE 

Quick guide is subject to change without notice.

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