



Bluetooth Laser Barcode Scanner

User Guide

Model: TT-BS022

TaoTronics®

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SKU : 30-88001-022

尺寸 : 150*95mm

材质 : 128g 铜版纸

装订方式 : 骑马钉

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Product Introduction

About TT-BS022 Bluetooth Laser Barcode Scanner

The TaoTronics TT-BS022 Bluetooth Laser Barcode Scanner is a portable wired and wireless barcode scanner designed for business use. You can choose to connect the scanner to your PC via USB cable or wirelessly connect to your Bluetooth enabled computer, Smartphone, tablet and mobile PDA.

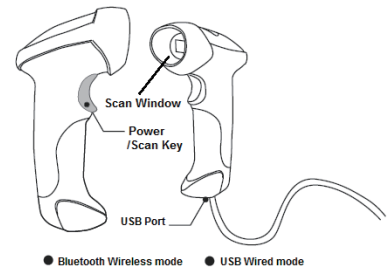
- Support both wired and wireless (Bluetooth) connection
- Built-in Flash memory supports breakpoint resume
- Supports standard Bluetooth protocol, no software required, simply connect via Bluetooth and start scanning.
- Can store up to 2600 barcodes in inventory mode when not connected or outside range
- Supports Windows, Android, iOS, Mac OS; works with computer, smartphone, tablet and mobile PDA

Package Includes:

- 1 x TaoTronics TT-BS022 Bluetooth Barcode Scanner
- 1 x USB Cable
- 1 x Bluetooth USB Adapter (for PC)
- 1 x Power Adapter
- 1 x User Manual

Product Diagram

1. Scan Button
2. LED Indicator
3. Charging/Data Port



Thank you for purchasing TaoTronics TT-BS022 Bluetooth Laser Barcode Scanner. Please read this guide carefully as it explains many important operating procedures. If you need any assistance, please email support@taotronics.com with details.

Technical Specifications

Bluetooth Version	Bluetooth Class 2.1 + EDR
Communication Mode	SPP, HID
Laser Source	Laser LED 650±20nm
Processor	ARM 7 72MHz
Internal Storage	128KB
Sensor	2500 pixels
Scan Accuracy	3 mil
Scan depth	6-30cm
Scan Speed	200 times/s
Scan Width	30mm
Scan Mode	Single-track Scan Mode
Compatible Barcode type:	Codabar, Code 11, Code 93, MSI, Code 128, UCC/EAN-128, CODE39, EAN-13, UPC-A, ISBN, Industrial 25, Interleaved 25, Standard 25, 2/5 Matrix
Indicator:	Buzz + LED Indicator
Bluetooth Range	10m / 33 ft
Wireless Transfer	Support HID and SPP dual modes data transfer under Bluetooth 2.1 Protocol
Power type	Built-in Rechargeable Battery
Battery	15000 mAh
Weight	5.3 oz (150 g)
Scanner Dimension:	6.1 x 2.6 x 3.6 inches (155 x 66 x 92 mm)

Note: The scanner performs best when it is not exactly perpendicular to the barcode.

Correct way of scanning



Wrong ways of scanning



Quick Start Guide

Note: The default Bluetooth ID is HID, the PIN code is 10010

Charging the Scanner

The scanner is powered by 1500mAh chargeable Lithium batteries. The batteries can support up to 60 hours of continuous usage. To charge the scanner, simply connect the scanner to the USB power adapter via included USB cable. The LED indicator light will be flashing alternatively in green and red while charging.

Scanner Operation

1. Turn on/off the Scanner

- To turn ON the scanner: press and hold the power button (trigger) until you hear a long beep. This indicates the scanner is turned on
- To turn OFF the scanner: press and hold the power button (trigger) until you hear two short beeps. This indicates the scanner is turned off

2. Reset to default

1) Scan the start setting barcode

Start Setting



2) Then scan the reset to default barcode

Reset to defaults



Please wait for a few seconds for the scanner to reset. Afterwards, the LED should slowly flashing in red

3. Making a wired connection

The TT-BS022 scanner supports wired connect with PC. To start a wired connection, simply connect the USB end of the USB cable to your PC and the other end to the scanner. Window should automatically detect the scanner and start installation. Wait for Windows to successfully install driver and the scanner is ready to use.

NOTE: If the scanner does not work properly with the wired connection, please scan the “Normal Mode” barcode.



4. Wireless Connection

The TT-BS022 scanner can wirelessly connects to your PC or mobile devices via Bluetooth link. Please make sure your PC or device supports Bluetooth connection or the connection will not work.

NOTE: If you find the scanner cannot pair with your device, please perform a “reset to default” as described in previous section, delete the device from connected device list, and restart the pairing process.

• Pairing with Windows XP / 7 / 8

Please turn ON the Bluetooth function on your PC, if your PC does not have Bluetooth function, you can purchase a Bluetooth USB adapter to add Bluetooth function to your PC. (Like TaoTronics TT-BA03 Bluetooth USB Adapter)

1) Scan “Start Setting” barcode



2) Scan “Activate HID” barcode



3) Scan “Random Pin” barcode



4) Scan “Exit and Save” barcode.



5) Restart the TT-BS022.

Power off the scanner by long pressing the trigger and then you will hear 2 beeps. Then restart the TT-BS022A by long pressing the trigger again until the scanner responds with a long beep

6) From your PC, go to “Start”—“Devices and Printers”—“Add Devices” and then search for the Bluetooth device. The Bluetooth ID is “CT1014507374”. Select the scanner from the result and click “Next”.

7) Now you will see a pop-up window asking you to enter a pin code. To enter the PIN code, scan the following digits barcode in the right order. For example, if the PIN code is 123789, you need to scan the barcode labeled 1, and then scan the barcode labeled 2, and barcode 3 7 8 9.





8) Scan "Confirm" barcode to complete the pairing.



You will hear a beep and the blue LED quickly flashing once every 6 seconds. This indicates the pairing is successful.

Note: If you have successfully connected the scanner with your PC once but failed to reconnect it, please delete the device from your Bluetooth device list first, restart the scanner and start again.

• **Pairing with Android device**

1) Scan "Start Setting" barcode



2) Scan "Android connection setting" barcode



3) Scan "Exit and Save" barcode,

Exit and Save



4) From your Android device, turn ON the Bluetooth Function, and start searching for the scanner. The Bluetooth ID is "CT1014507374". Tap on the ID name to start pairing

5) If asked for a pairing code, enter 10010

6) When connection is successful, you will hear a beep sound and the LED will blink in blue once every 6 seconds

• **Pairing with iOS**

7) Scan "Start Setting" barcode

Start Setting



8) Scan "iOS connection setting" barcode

iOS connection setting



9) Scan "Exit and Save" barcode,

Exit and Save



10) From your iOS device, turn ON its Bluetooth function and start searching for the scanner. The Bluetooth ID is "CT1014507374". Tap on the ID name to start pairing

11) Now your device will ask you to enter a pin code to complete the pairing process. To enter the PIN code, scan the following digits barcode in the

right order. For example, if the PIN code is 123789, you need to scan the barcode labeled 1, and then scan the barcode labeled 2, and 3 7 8 9.

0



1



2



3



4



5



6





12) Scan "Confirm" barcode to complete the pairing.



15) When connection is successfully, you will hear a beep sound and the LED will blink in blue once every 6 seconds

TIPS: if you need to use the virtual keyboard for editing, quickly double press the scan button (trigger) will bring up the iOS virtual keyboard. Double press the scan button again to hide the keyboard.

5. Scanning under normal mode

Once the scanner has successfully paired with your device, you can start using the scanner under normal mode. Make sure you open any editable software on the connected device (Notes, Word, Excel, etc), and place the cursor at where you want the scanned result to appear.

6. Inventory Mode

Inventory mode allows you to use the scanner without establishing any connection (wired or wireless). This is great if you have a large working area to cover or if you need to use the scanner outside its Bluetooth range.

To enter inventory mode, simply scan the "Inventory Mode" barcode



Now you can start scanning barcodes. Scanned barcode will remain in scanner memory until it is cleared.

NOTE: you do not need to connect the scanner with a device before entering inventory mode. You can enter inventory mode, perform scanning, and then decide which device to upload the data to.

• Upload Scanned data

You can upload your scanned data to PC, Android or iOS device.

1. Make sure you have already established a connection to the device that you wish to upload the data to. Please see the previous sections on how to connect the scanner to your device
2. Scan the 'Upload Data' barcode (see below). Then the stored barcodes will automatically transfer to the connected device



However, after the data is uploaded to your device, it still remains in the scanner until it is cleared.

To clear existing data from your scanner, please scan the following barcode:



If you wish to know how many entries are stored in the scanner, just scan the following barcode and the scanner will output the number of entries stored in its memory.

Data Statistics



• Go back to normal Mode

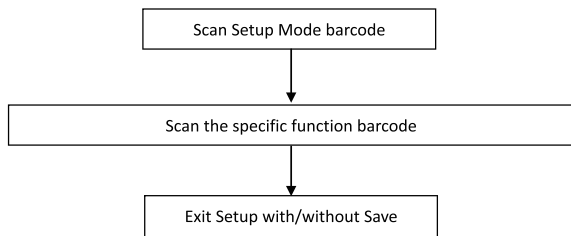
To go back to normal mode, please scan “Normal mode” barcode

Normal Mode



7. Set other functions

The basic steps to change any settings are as follow:



Note:

- You need to pair the scanner with your PC or devices first before setting other functions
- When in setting mode, the LED indicator should flashing in purple once every 2 seconds
- If the function you are going to set involve several steps, for instance, to set auto power off and the auto power off time, it is required to scan all barcodes successively, which in this case are: start setting – Auto power off – Auto Power off Time – Exit with Save.

• Example: Enable Codabar

1) Scan “Start Setting” barcode.

Start Setting

2) Scan “Enable Codabar” barcode.

Enable Codabar



3) Exit with save. Scan the following barcode to exit if you have SUCCESSFULLY scanned the wanted feature. If NOT, please refer to “scan without save” barcode. The scanner will respond with three beeps (tone ascending from low to high) and the purple flashing light will be off.

Exit with Save



If you accidentally scanned the wrong barcode, please scan the “Exit without Save” barcode to exit and restart the process again.

Exit without Save



NOTE: When any setup error occurs, the TT-BS022 Barcode Scanner will respond with a long beep (low tone), and its LED indicator will flash in purple.

• Example: Auto Power off

To save the power, the user can also set auto power off function with the scanner

1) Scan “Start Setting” barcode

Start Setting



2) Scan "Auto Power Off" barcode

Auto Power Off



3) Scan the barcode which set the power off time you need, for instance, you want the scanner to power off automatically 5 minutes after no usage, then scan "5 mins" barcode:

5 minutes



4) Exit with save. Scan the following barcode to exit if you have SUCCESSFULLY scanned the wanted feature. The scanner will respond with three beeps (tone ascending from low to high) and the purple flashing light will be off

Exit with Save



• **Example: Enable Continuous Scanning**

Continuous Scanning lets you scan barcodes continuously without pressing trigger. After scanning is done, the scanner will enter into standby status automatically.

1) Scan "Start Setting" barcode.

Start Setting



2) Scan "Enable Continuous Scanning" barcode.

Enable Continuous Scanning



3) Exit with save.

Exit with Save



Please refer to "Barcodes" section to choose the barcodes for the function you need.

8. Barcodes

The barcodes of all functions are listed below. The setting of all functions listed can be completed in the same methods as explained in "Set the Functions" section. Please refer to "Set the functions" about the specific steps.

Barcodes labeled with ✕ are default settings.

Start setting



Exit with Saving



Exit without Saving



Reset to Defaults



Trigger Mode



Continuous Mode



Auto Power Off Mode



Auto Power Off Time Setting



400ms Scanning Interval



800ms Scanning Interval



1s Scanning Interval



(※) 2s Scanning Interval



3s Scanning Interval



5s Scanning Interval



10s Scanning Interval



15s Scanning Interval



Auto Power Off – 5 minutes



Auto Power Off – 10 minutes



Auto Power Off – 20 minutes



Auto Power Off – 30 minutes



Auto Induction Mode



Auto Induction Distance Setting



Auto Induction Distance 0



Auto Induction Distance 1



Auto Induction Distance 2



Auto Induction Distance 3



Auto Induction Distance 4



Auto Induction Distance 5



Auto Induction Distance 6



Auto Induction Distance 7



Auto Induction Distance 8



Auto Induction Distance 9



Turn Off Sound



Low Volume



Moderate Volume



High Volume



Add Enter as Suffix



Remove Enter from Suffix



Add Alt as Suffix



Remove Alt from Suffix



Enable Codabar



(☒) Disable Interleaved 25



(☒) Disable Codabar



Enable Matrix 25



Enable Industrial 25



(☒) Disable Matrix 25



(☒) Disable Industrial 25



(☒) Enable Code 39



Enable Interleaved 25



Disable Code 39



(※) Transmit data WITH start-stop character of Code 39



Transmit data WITHOUT start-stop character of Code 39



(※) Do not Verify



Verify without Outputting Checksum Character



Verify with Outputting Checksum Character



(※)Enable Code39 Full ASCII



Disable Code39 Full ASCII



Enable Code 93



(※) Disable Code 93



(※) Enable Code 128



Disable Code 128



(※) Enable EAN-8



Disable EAN-8



Convert to EAN-13



Add "0" without changing ID



(⊗) Do not convert to EAN-13



(⊗) Transmit EAN-8 Checksum



Do not transmit EAN-8 Checksum



(⊗) Enable EAN-13



Disable EAN-13



Convert EAN-13 to ISBN



(⊗) Not Convert EAN-13 to ISBN



(⊗) Transmit EAN-13 Checksum



Not transmit EAN-13 Checksum



Add "0" in the output of UPC-A data



(※) Not add "0" in the output of UPC-A data



(※) Transmit UPC-A Checksum



Not Transmit UPC-A Checksum



(※) Enable UPC-E



Disable UPC-E



(※) Transmit UPC-E Checksum



Not Transmit UPC-E Checksum



Enable MSI



(※) Disable MSI



9. Code ID

Code ID list

Code Type	Code ID	Hex Value
Codabar	a	61
Code 39	b	62
UPC-E	c	63
EAN-13	d	64
Interleaved 2 of 5(IT)	e	65
Code 2 of 5 (Standard)	f	66
MSI	g	67
Code 11	h	68
Code 93	i	69
Code 128	j	6A
Matrix 2 of 5	m	6D
2/5 Industrial	n	6E
EAN-8	o	6F
ISBN	k	6B
UPC-A	l	6C

10. LED indicator

The LED indicates what mode the scanner is in:

Color of LED Indicator	Explanation
Quick flashing of Green LED	Scanning successful
Green LED on Every 5s	Scanner in Memory Mode
Purple LED flashing once every second	Scanner in Setting mode
Blue LED slowly flashing once every 3 seconds	The scanner is paired with a Bluetooth device, but the connection is broken/lost
Blue LED quickly flashing once every 6 seconds	The scanner is wirelessly connected to a Bluetooth device
Red LED flashing once every 2 seconds	The scanner is in pairing mode and ready for pairing
Yellow LED flashing	Battery low

11. Beeper

The beeper indicates if the operation was successful or not:

Beeping	Explanation
One long beep, high tone	The scanner is on
One short beep, high tone	Reading barcode
One long beep, low tone	Configuration error, with purple flashing; Or Transmit buffer full, with green LED on and off quickly
Two short, high beeps	The scanner is off
Two short beeps, low-high	Bluetooth connection established
Two short beeps, high-low	Bluetooth connection out of range or suspended
Three short beeps, descending tone	Enter or Exit Setting mode, with purple LED flashing.
Three short beeps, ascending tone	Configuration correct, with purple LED flashing;

Technical Assistance:

For technical assistance, please email to SUPPORT@TAOTRONICS.COM with your purchase order number and a detailed description of your issue. We normally respond to enquiries within 24 hours.

For more information, please visit www.TaoTronics.com.

Warranty:

This scanner is covered with TaoTronics parts and labor warranty for 12 months from date of the original purchase from authorized retailer and distributor. If the device fails due to a manufacturing defect, please contact TaoTronics Support (support@taotronics.com) immediately to launch a warranty claim. We will instruct you on how to return the defective unit back to us for repair and replacement.

The following are excluded from TaoTronics warranty cover:

- Device purchased as 2nd hand or used
- Device purchased from unauthorized retailer and distributor
- Damage resulted from misuse and abusive action
- Damage resulted from chemical, fire, radioactive substance, poison, liquid
- Damage resulted from natural disaster
- Damage caused to any 3rd party / person / object and beyond

No return will be accepted without seller authorization.

Statement

We can only provide after sale services for products that are sold by TaoTronics or TaoTronics authorized retailer and distributor. If you have purchased your unit from a different place, please contact the seller for return and warranty issues.