

EYOYO Barcode Scanner User Manual

Model: EY-021



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English: support@eyoyousa.com

France: support-fr@eyoyousa.com

Italy: support-it@eyoyousa.com

Spain: support-es@eyoyousa.com

Germany: support-de@eyoyousa.com

Japan: support-jp@eyoyousa.com

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1. Precautions

In order to correctly use the barcode scanner, please read the instruction carefully and do not arbitrarily scan the settings code, otherwise, some settings may not be available temporarily. Please keep this instruction for reference in the future.

Congratulations and Thank You for choosing the Eyoyo® Barcode Scanner. If you have any problems with our products, please contact us at **support@eyoyousa.com**

Register now to ensure full warranty coverage. Send an email with the date of purchase, purchase link and order number to **support@eyoyousa.com**.

For more information, please visit to our official website: www.eyoyousa.com

All our Eyoyo brand product can offer a one-year warranty and lifelong tech support.

You are suggested to write down the model & the specific scenario and consult the maintenance person should you find the scanner abnormal.

2.Features&Technical Parameter

Features:

- 1.Super light weight, mini size compact design, portable to carry and use.
2. Wired and wireless dual-mode freely switching, 2.4G dongle wireless & Bluetooth wireless & USB wired three types of connection ways.
3. Support Windows XP, Win7, Win8, Win10 operating system PC, Android, IOS devices.
4. Lower electric consumption design, 450mAh rechargeable battery can use up to 8H continuous scanning time, only need 4H to charge. Standby time is up to 720Hours.
5. 16MB Large capacity storage, safe and reliable. Under off-line scanning mode can store UPC/EAN barcodes more than 100000pcs.
6. Long transmission distance.
7. The sound and vibration can be turned off.
8. Support Bluetooth HID protocol, SPP protocol and BLE protocol (Bluetooth Transmission Mode).
9. With rich symbologies supported, support hide/add custom prefix/suffix digits.
10. Support scan Codabar, Code11, Code93, MSI, Code 128, UPC/EAN, Code 39, EAN-8, EAN-13, UPC-A, UPC-E, ISBN, Industrial 2 of 5, Interleaved 2 of 5, Standard 2 of 5, Matrix 2 of 5, Data Matrix, QR Code, PDF417, Aztec Code etc most of 1D 2D code.

Application

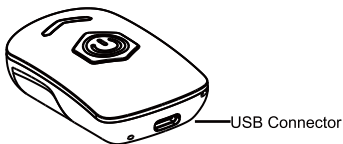
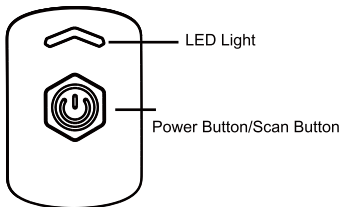
◆ Supermarket	◆ Warehouse
◆ Mobile payment	◆ Retail chain
◆ Courier	◆ Health care

Technical Parameter

A dual-mode scanner	wired and wireless, switch freely
Wireless transmission protocol	Bluetooth + 2.4G
Storage	16Mb
Decoding chip	ARM Cortex 32 bits
Bluetooth module	Bluetooth 4.1Module
Support barcode	Codabar, Code11, Code93, MSI, Code 128, UPC/EAN, Code 39, EAN-8, EAN-13, UPC-A, UPC-E, ISBN, Industrial 2 of 5, Interleaved 2 of 5, Standard 2 of 5, Matrix 2 of 5, Data Matrix, QR Code, PDF417, Aztec Code
Indicator	LED light, Buzzer, Vibration
Charging voltage /current	5V/1A
Time of Endurance	Continuously Work 8 Hours under Normal condition
Battery Capacity	450mAh
Printing Contrast	>25%
Scanning Angle	Pitch:±65° Roll: 0-360° Skew: ±60°
Standby time	>30 days
Working Temperature	32°F to 104°F/0°C to 40°C
Storage Temperature	-40°F to 140°F/-40°C to 60°C
Humidity	5% to 95% relative humidity (no condensation)
Ruggedness	Resist about 6 times drops from 1.5m to concrete ground

Ambient Light Immunity	Under normal office and factory ambient lighting conditions, or exposed to the sun won't take any effect to it.
Electrostatic discharge	In line with 15KV air discharge and 8KV contact discharge requirements
Electrical safety	In accordance with UL1950,CSA C22.2 No.950,EN60950/IEC950 EMI/RFI:FCC Part 15 Class B,European Union EMC Directive, Taiwan EMC
Environment Terms	In accordance with RoHS directive 2002/95/EEC

3.Appearance Description



4.Buzzer & Indicator Light State

Buzzer

Sound Type	Description
a long sound(First low then high frequency)	Means power on
a short sound(Di sound)	Means power off
a short sound(low frequency)	Means read barcode
a short sound(First low then high frequency)	Means data has been send
a short sound(First high then low frequency for 1D)	Means scan the set-up barcode
a short sound(Di Di Di sound)	Means wireless transmission failed or cache is full

LED Indicator light

light color	Description
Dark blue lights flicker	Bluetooth not online
Dark blue light continue on	pairing success
Light blue light always on	Charging state, after full, it will be off

5.FAQs & Troubleshooting

FAQs

★What should I do if I can not pair the scanner with Bluetooth devices?

A.Please make sure that the scanner is in the matching state under corresponding Bluetooth protocol

B.If your Bluetooth devices have connected successfully with other barcode scanners via Bluetooth or other devices. Please delete the Bluetooth connection record before connecting.

C.The wireless module has been damaged. please contact the seller,the email address is support@eyoyousa.com

★Why the scanned barcodes fail to be uploaded to a computer or smartphone?

A.Please make sure if they have been successfully paired, if yes, the LED indicator of the Bluetooth barcode scanner is blue.

B.Please check if it is in "Storage Mode". (In "Storage Mode" scans won't be uploaded automatically, please scan "Data Upload" setting code manually to upload the scan is required)

C.Please switch to "Normal Mode" to scan and upload simultaneously.

D.The wireless module has been damaged, please contact the seller, the email address is support@eyoyousa.com

★If I scan a product barcode, will it include the name of the product in the file automatically?

A.It can't support.The scanner works like a keyboard. The scanner does not interpret what the barcode is, it just "types" out a string of alphabet numeric characters that the barcode represents.

B.it's up to the database software you are using to interpret what that string of characters means. Once you acquire the barcodes, you

have to correlate them to something more meaningful by either purchasing a software service that will interpret the barcode and relate it to a product, or you can use your own internal inventory system to assign the barcodes to specific products.

C.After creating the relationship between your barcode and the corresponded information, when you enter the barcode into the software by the scanner, your software will look up the barcode and then output the related information of your product.

★Why does the scanner not read the barcode exactly? When I use the scanner to read a barcode of an item, I get a different result from the barcode itself.

A.Please contact the seller, attached the sample of barcode and operate video, the email address is support@eyoyousa.com.

★Some barcodes can not be read, why?

A. Incomplete and unclear barcodes might not be read.

B. It is possible that the setting is off by default for some barcode types which are not commonly used. You need to activate a specific barcode type to get it working. Please find the set code on user manual.

Please feel free to contact our Customer Service Team for further assistance if you don't know the exact type of barcode that you are referring to.

★Are there any barcodes to remove auto-enter after every scanning?

A. To remove the auto-enter, scan these codes "None" on page22.

Q5. How to add Tab?

A.To add Tab after every scanning, scan the code "Add Tab" on page22.

Troubleshooting

Problem	Possible Reason	Solution
Pull the trigger, the scanner has no reaction. the red scanning light does not show up.	The battery run out.	Charge the scanner at least 2-5 hours.
	The head of scanner is out of condition.	Contact support @eyoyousa.com To help you solve the problem
The scanner can not hold the charge.	The PC's USB port is out of condition	Connect the scanner to another USB port for charging.
	The USB cable is out of condition.	Contact support @eyoyousa.com To help you solve the problem
Scanner and USB receiver are all in good condition. But the barcode can not be sent to my computer.	The scanner failed to match the USB receiver.	Contact support @eyoyousa.com To help you solve the problem
	The scanner was set to storage mode, scanned data will be kept in the buffer of scanner. the USB receiver.	

6.Battery & Charging

The scanner is powered by 450mAh chargeable battery. please ensure that the scanner has enough power before use.

During normal usage or start-up process, if the buzzer continuously makes five times long sound (low frequency) ,then automatically power off. It means the power capacity is too low and need to be charged before use

Insert one end of the USB cable into the bottom of the scanner and insert another end to computer USB interface or 5V DC USB interface power.

Charging indicator:

The Light Blue indicator light on the top of the scanner will light all the time during charging and it will go off when the scanner is fully charged.

Note:

Please use computer USB interface or special 5V DC power adapter for charging, the abnormal power will cause permanent damage to scanner and battery.

Battery Remaining

To know how much electricity remains, put the cursor in the blank and then scan the flowing barcode.



7.Restore Factory Defaults Setting & Version Number

During usage, if you scan other set-up barcodes by mistake and the scanning cannot perform as normal way, you can scan the “Reset Configuration to Defaults” barcode to revert.



Reset Configuration to Defaults

If you want to know the version of this barcode scanner, you can scan the “Version Information”



Version Information

8. Pairing Mode Setting

Several methods of usage

A: When using 2.4G feature, you can match desktop PCs or PC terminals that do not support Bluetooth. Scanner supports systems such as XP, Win7, Win8, Win10, etc. (Please refer to the next page for specific pairing steps)

B: When using Bluetooth, you can match Android, iOS mobile phones, or PC terminals with Bluetooth capabilities. (Please refer to the next page for specific pairing steps)

C: Plug the USB cable to the computer, you can charge the scanner and use it as a wired scanner synchronously

Bluetooth Pairing Steps:

Pair with the operating system (Including Android, iOS, WIN system) that with Bluetooth function:

Method 1:

A: Turn on the barcode scanner and long press the scan button for 8-10 seconds to enter the Bluetooth search mode, you will see the blue light flash, then it is ready to be connected to your iPhone.

B: Turn on Bluetooth in your device to detect Bluetooth device named with "EY-021". If pair successfully, you will hear a beep.

Method 2:

A: Turn on the barcode scanner and scan the "Bluetooth HID Pairing Mode" barcode to enter the Bluetooth search mode



Bluetooth HID Pairing Mode

B: Turn on Bluetooth in your device to detect Bluetooth device named with "EY-021". If pair successfully, you will hear a beep

2.4G Pairing Steps :

PC terminals ,like desktop computer, which is not equipped with Bluetooth, need to pair with USB Dongle, USB Dongle Pairing Steps as follow:

A: Scan USB Dongle Setup Barcode



B: Scan “Compulsory Pair with Dongle Setup Barcode” so that enter into pairing state.



Compulsory Pair with Dongle Setup Barcode

C: Plug the USB Dongle receiver to the computer, If pair successfully, you will hear a beep. The blue light on the top will always be bright

9.Communication Mode Switching

Select the Bluetooth protocol you demand



Bluetooth BLE Mode



Bluetooth HID Mode



Bluetooth SPP Mode

Note: Scan above barcode to enter the Bluetooth searching state

10.Upload Mode Setting

Normal Mode

In normal mode, the scans are uploaded directly to the computer via USB cable or wireless connection.

To set the scanner to upload barcode instantly, scan the following code.



Normal Mode

Transmission Speed Setup

Select the corresponding transmission speed according to PC receiving speed.



Fast



slow



Medium

Storage Mode:

If the transfer range is beyond Bluetooth or 2.4G wireless transfer range, storage mode is suggested, in which scans are stored in internal storage after being scanned

In storage mode, if a barcode is scanned, the scanned data are automatically stored in the scanner's internal storage.

★ To convert scanner from “Normal Mode to “Storage Mode”, scan the following barcode” Storage Mode”.



Storage Mode

★ Upload the stored data by scanning the "Data Upload" barcode. After the data is uploaded, the barcode stored in the barcode scanner won't be automatically deleted. The user can upload the stored data multiple times by scanning "Data Upload" barcode.



Data Upload

Note: When uploading data, please ensure the wireless signal is perfect, or upload after connecting with USB cable,

★By scan “Total amount of stored barcode” barcode, to check the total amount of scanned barcodes in storage:



Total amount of stored barcode

★By scanning “Clear Data” to clear the scans in storage, the cleared scans won't be uploaded once cleared. Please confirm whether the scans have been uploaded before clear them.



Clear Data

11. Bluetooth Name Change Setting

A.If User want to change the Bluetooth name , It can make a barcode and scan this barcode to change name, the barcode type is code128, data is ^&C0C&^NAME , such as Bluetooth name is BLE_SCANNER, you can make a barcode as below.



If you want to change the Bluetooth Name, you can contact us to help you change it.

Note: if you reset the configuration to default, the Bluetooth name would revert to default



12.IOS Pull up and Hid Keyboard

Method 1:

★if you need pull up the IOS keyboard, you can double click the scan button.

★if you need hid IOS keyboard, you can double click the scan button too.

Method 2:

★if you want pull up and hid IOS keyboard, you can also scan the barcode as followings:



Pull up and Hide IOS Keyboard

13.Keyboard Language Setting

Different national languages correspond to the keyboard keys arrangement, symbols, etc. are different, the barcode scanner can be virtual according to the actual needs of different countries keyboard.



Sweden



German



Japanese



Spanish



French



USA



Italian

14.Beep & Vibration Setting

Scan one of the following barcode to select the decoding beep & Vibration mode



turn off the sound



Medium volume



High volume



Low volume



vibration on (optional)



vibration off(optional)

15.Sleep Time Setting



Never Sleep



Sleep Now



Standby after 30s



Standby after 2min



Standby after 5min



Standby after 10min



Standby after 30min

16.End Character Setting

The end character is used to mark the end of a complete data message. The suffix of end character must be the last content of a data transmit, then there will be no additional data.

By default, the scanner is sending a 'carriage return' after scanning a code (the same as pressing the 'enter' key) .



None



Add LF



Add CR



Add Tab



Add CR+LF

17.Character Conversion

By setting the character conversion function of the barcode scanner, the upper case and lower case conversions of the English letters of the barcode output data can be performed.

For example, if the content of the barcode is aBC123, set the barcode to "all in lower case" and the data obtained by the host will be "abc123". The default is Normal output.



All in lowercase



All in upper case



Case interchange



Normal (No Change)

18.Scanning Mode Setting

The user can set the reading mode of the barcode reader according to the needs. The default state is the “Manual Trigger Mode ”

Manual Trigger mode :

In this Manual Trigger Mode , the barcode reader starts reading after pressing the trigger button, and the barcode reader stops reading after successfully reading or unlocking the trigger button.

** ** Scan the following code to set the scanner to manual Trigger mode.



manual Trigger mode

Self-sensing scanning mode:

** ** Scan the following code to set the scanner to self-sensing scanning mode.



self-sensing scanning mode

Continuous scanning mode:

** ** Scan the following code to set the scanner to continuous scanning mode.



continuous scanning mode

19.Bar Code Parameter Settings

Each type of barcode has its own unique properties,Through the setting code of this chapter, you can adjust the barcode reader to adapt to these property changes.The fewer types of barcodes that are enabled to enable reading, the faster the barcode reads. You can disable barcode scanners from reading barcode types that will not be used, to improve the performance of the barcode scanner.

Reverse Barcode



Enable Reverse Barcode



Disable Reverse Barcode

UPC-A



Enable UPC-A*



Disable UPC-A

UPC-A Check Digit



Transmit UPC-A
Check Digit*



Do Not Transmit
UPC-A Check Digit

UPC-A Additional Code



Decode UPC-A 2
additional code



Ignore UPC-A 2
additional code*



Decode UPC-A 5
additional code



Ignore UPC-A 5
additional code*

UPC-E



Enable UPC-E*



Disable UPC-E

UPC-E Check Digit



Transmit UPC-E
Check Digit*



Do Not Transmit
UPC-E Check Digit

UPC-E Additional Code



Decode UPC-E 2
additional code



Ignore UPC-E 2
additional code*



Decode UPC-E 5
additional code



Ignore UPC-E 5
additional code*

UPC-E0



UPC-E0 Enable



UPC-E0 Disable

UPC-A To EAN-13



Enable UPC-A to EAN-13



Disable UPC-A to EAN-13*

EAN-8



Enable EAN-8*



Disable EAN-8

EAN-13



Enable EAN-13*



Disable EAN-13