

Eyoyo Barcode Scanner

User Manual

Model: EY-023



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Italy:support-it@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 Eyoyo VIP Club 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 our official website:
www.eyoyousa.com

All our Eyoyo brand products can offer a one-year warranty and lifelong tech support. You are suggested to write down the model & attach the video and photos showing the problems in the email or message for a quick solution. Eyoyo customer service will usually respond in 12 hours on working days.



Email: support@eyoyousa.com



WhatsApp: +8618589059424

2 .Features&Technical Parameter

EY-023 2D barcode scanner is a stylish high-performance portable 2d barcode scanner, with a good reading performance and can easily read 1d and 2d barcodes on different media such as paper, commodities, screens, etc. The product adopts enhanced 2.4G wireless transmission technology, the effective distance can reach more than 150 meters in outdoor no obstacle environment, and it can also support Bluetooth and usb wired transmission at the same time. It can be mainly used for mobile payment, commodity barcode scanning, inventory counting, etc.

Features:

1. Light weight, mini size compact design, portable to carry and use.
2. Wired and wireless dual-mode freely switching, Bluetooth wireless & 2.4G wireless & USB wired 3 types of connection ways.
3. Support Windows XP, Win7, Win8, Win10 operating system PC & Android and IOS devices.
4. Lower electric consumption design, 1500mAh high capacity rechargeable battery can use up to 16H continuous scanning time, only need 3.5H 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. The sound and vibration can be turned on/off.
7. Support Bluetooth HID protocol, SPP protocol and BLE protocol (Bluetooth Transmission Mode).
8. With rich symbologies supported, support hide character, add custom prefix/suffix character and so on.
9. Support scan UPC-A,UPC-E,EAN-8,EAN-13,Codabar,CODE11, CODE32,CODE 39,CODE 39 Full ASCII, CODE93,CODE128, Industrial 2 of 5, Interleaved 2 of 5, Matrix 2 of 5, Standard 2 of 5, MSI Plessey, GS1 DataBar 14(RSS-14), GS1 DataBar Limited (RSS-Limited) GS1 DataBar Expanded(RSS-Expanded) 2D Barcodes: QR Code, Micro QR Code Data Matrix, PDF 417, Micro PDF 417, Aztec Code

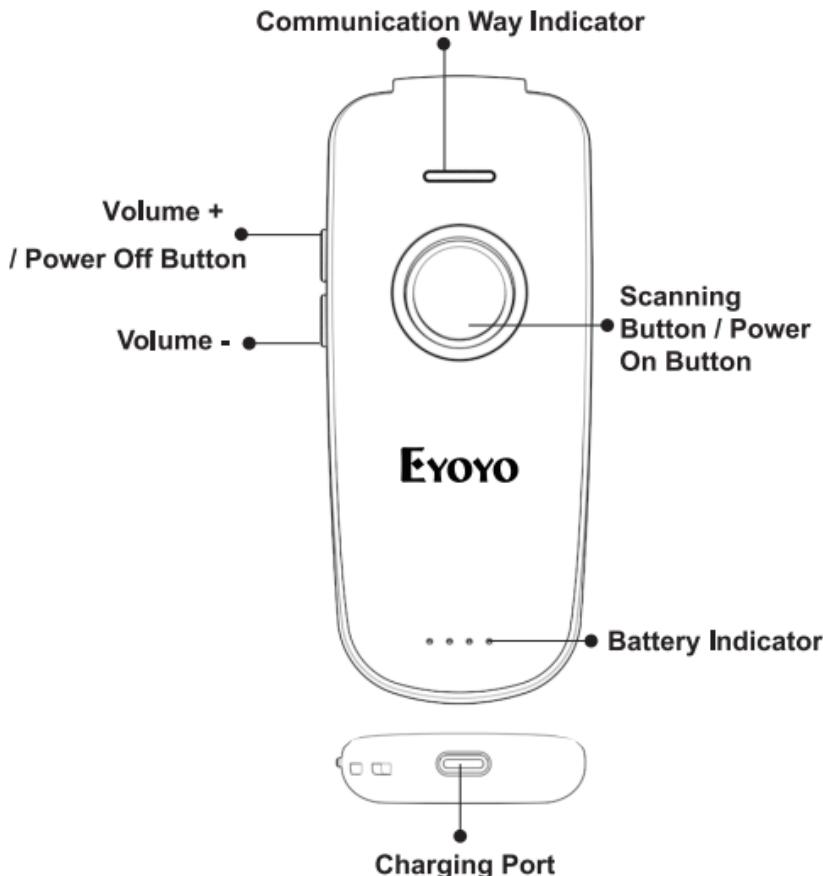
Technical Parameter

Sensor	CMOS
Resolution	≥3mil/0.076mm(PCS90%,CODE 39)
Reading depth of field	20mm~500mm
Decoding speed up	65CM/S
Scanning Mode	Key trigger scanning mode, Auto-sensing scanning mode, Continuous scanning mode
Indicator	buzzer, LED
Reading angle	Test Conditions: CODE39,10mil/0.25mm,PCS90% Rotation Roll: ±360°, Pitch: ±60°, Skew: ±55°
Print contrast	≥20%
Ambient illuminance	dark environment, indoor natural light
Wireless communication mode	Instant mode, Storage mode
Transmission distance	2.4GHz 150meters; Bluetooth 30meters(Open distance)
Storage capacity	16Mb(over 100,000 Product code)
Battery capacity	1500mAh
Charging time	About 3.5 hours
Continuous scanning time	≥16 hours
Standby time	≥720 hours
Symbologies	1D: UPC-A, UPC-E, EAN-8,EAN-13, Code 128, GS1-128, Code 39, Code 32, Code 93, Code 11, Interleaved 2 of 5, Matrix 2 of 5, Industrial 2 of 5 (Straight 2 of 5), Codabar(NW-7), MSI, GS1 Databar(Omnidirectional, Limited, Expanded), etc. 2D: QR Code, Micro QR Code, Data Matrix, PDF417, Micro PDF 417, Aztec, etc.

Application:

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

3 .Appearance Description



4 .Appearance Description

Buzzer

Sound Type	Description
a long sound(First low then high frequency)	Means power on
a long sound(First high then low frequency)	Means power off
a short sound(Di sound)	Means read barcode, Bluetooth pair successfully
a short sound(Di Di Di sound)	Means transmission failed or cache is full
a short sound(Di Di Di Di sound) and stopped scanning	Means the battery drained
a short sound(Di Di sound)	Means wireless connection failed

Buzzer

Light Color	Description
Blue light flicker alternately	Means enter into Bluetooth HID pairing state
Blue light always on	Means Bluetooth is successfully connected
Red light always on	Means charging status

5 .FAQS & Troubleshooting

FAQS

★How to turn on or turn off the barcode scanner?

- A. Long press the scanning button for 3-4 seconds, the barcode scanner will turn on.
- B. Long press the volume + button for 5-6 seconds, the barcode scanner will turn off.

★How to turn up and turn down the volume?

- A. Press the volume + button to turn up the volume, press the volume - button to turn down the volume.
- B. can the set code in the user manual to set the volume you want.

★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 the corresponding Bluetooth protocol
- B. If your Bluetooth devices have connected successfully with other barcode scanners via Bluetooth or other devices. Please delete all the Bluetooth connection records before connecting. (if your phone is iPhone, you can set this via these steps: Settings-Bluetooth-MY DEVICES-Click the -Forget this Device)
- C. The wireless module has been damaged. please contact the seller, the email address is support@eyoyousa.com

★Why did 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 the "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 help me adjust the transmission speed to slow, you can find the set code in the manual on page 10.
- B. if it still can't work, please contact the seller, attached the sample of the barcode photo 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 in the user manual.
- C. 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 page 11.

★ How to add Tab?

A.To add Tab after every scanning, scan the code "Add Tab" on page 11.

Troubleshooting

Problem	Possible Reason	Solution
Pull the trigger, the scanner has no reaction. the 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

6 .Battery & Charging

The scanner is powered by a 1500mAh rechargeable battery. Please ensure that the scanner has enough power before use.

Low Battery Indication:

You can see the battery indicator, If you see that only one battery indicator is on, it means that the battery is low, Please stop scanning and charging the scanner as soon as possible.

Charging:

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

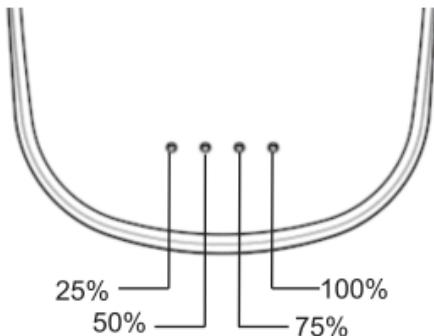
Charging indicator:

The red indicator light on the scanner will turn on all the time during charging, and it will go off when the scanner is fully charged.

NOTE:

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

Battery Remaining



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, Tablets, iPad, or PC terminals with bluetooth capabilities.(Please refer to next for specific pairing steps)
- C: Plug the USB cable to the computer, you can charge the scanner and use it as wired scanner synchronously

Bluetooth Pairing Steps

Pair with operating system (Including Android, iOS, Windows, Mac OS system) that with Bluetooth function :

Method 1:

- A: Start the scanner and long press for 8 seconds to enter the Bluetooth search mode
- B: Turn on Bluetooth in your device to detect Bluetooth device named with "EY-023". If pair successfully, you will hear a beep.

Method 2:

- A: Start the scanner and scan the "Bluetooth pairing setup barcode" and "Paired with dongle"to enter the Bluetooth search mode



Bluetooth pairing
setup barcode



Paired with dongle

- B: Turn on Bluetooth in your device to detect Bluetooth device named with "EY-023". 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 Dongle, Dongle Pairing Steps as follow:

A: Scan “2.4G Mode” barcode



2.4G mode

B: Scan“Compulsory Pair with Dongle Setup Barcode” so that enter into pairing state. The Blue light will flickers quickly.



Compulsory Pair with Dongle Setup Barcode

C: Plug the usb dongle receiver, If pair successfully, you will hear a beep. The blue light will always be bright.

9 .Communication Mode Switching

Select the Bluetooth protocol you demand,the default mode is
Bluetooth HID Mode



*Bluetooth HID Mode



Bluetooth SPP Mode



Bluetooth BLE Mode

10 .Upload Mode Setting

Normal Mode

In normal mode, the scans are uploaded directly to the phone or other Bluetooth device via a USB cable or Bluetooth connection. In normal mode, if fails, the data will be lost.

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



Normal Mode

Transmission Speed Setup

Select the corresponding transmission speed according to PC or phone receiving speed. (Note: If the barcode lose characters on your phone, please slow down the transmission speed, especially for Android phone)



Fast



Medium



Low



Very Low

Storage Mode

If the transfer range is beyond Bluetooth 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 scanner will make a short tone and the scanned data are automatically stored in the scanner's internal storage. If the internal storage is full, the scanner will emit three low-frequency short tones to alarm.

★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 the "Data Upload" barcode



Data Upload

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

If you want to change the Bluetooth name, you can contact us to help you change it. You can according to your need to set the Bluetooth name. Contact us via this email address(support@eyoyousa.com), then we can send the set code to you soon.

12.IOS Pull up and Hide Keyboard

Method 1:

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

Method 2:

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



Pull up or hide IOS keyboard

13.Keyboard Language Setting

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



English



Spanish



French



Germany



Italian



Japanese



Belgian



International
general keyboard

14 .Beep Setting

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



turn off the sound



Low volume



Middle volume



High volume



Vibration on



Vibration off

15 .Sleep Time Setting

You can set the sleep time according to your own habits, it can still save the battery and automatically powered off after the sleep time you set.



30s Automatic
power off



2mins Automatic
power off



5mins Automatic
power off



30mins Automatic
power off



Never Sleep



Power Off
Immediately

16.End Character Setting

The end character is used to mark the end of a complete data message.

The suffix of the end character must be the last content of data transmission, 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).



Add CR*



Add LF



Add CR+LF



Add TAB



None

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

Continuous scanning mode off :

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



Continuous scanning mode

Continuous scanning mode off :

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



Auto-sensing 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.

All 1D Barcode Setting



Enable reading all
the 1D barcodes



Disable reading all
the 1D barcodes

All 2D Barcode Setting



Enable reading all
the 2D barcodes



Disable reading all
the 2D barcodes

Reverse Barcode Setting



Enable reading all the
reverse 1D barcodes



*Disable reading all the
reverse 1D barcodes

Code 128



*Enable Code 128



Disable Code 128

EAN-8



*Enable EAN-8



Disable EAN-8



*Enable Transmit
EAN-8 Check Digit



Disable Transmit
EAN-8 Check Digit



Enable EAN-8 +2
additional code



*Disable EAN-8 +2
additional code



Enable EAN-8 +5
additional code



*Disable EAN-8 +5
additional code

EAN-13



*Enable EAN-13



Disable EAN-13



*Enable Transmit
EAN-13 Check Digit



Disable Transmit
EAN-13 Check Digit



Enable EAN-13 +2
additional code



*Disable EAN-13 +2
additional code



Enable EAN-13 +5
additional code



*Disable EAN-13 +5
additional code



Enable EAN13
to ISBN



*Disable EAN13
to ISBN



Enable EAN13
to ISSN



*Disable EAN13
to ISSN

UPC-E



*Enable UPC-E



Disable UPC-E



*Enable Transmit
UPC-E Check Digit



Disable Transmit
UPC-E Check Digit



Enable UPC-E+2
additional code



*Disable UPC-E+2
additional code



Enable UPC-E+5
additional code



*Disable UPC-E+5
additional code

UPC-A



*Enable UPC-A



Enable UPC-A
to EAN13



*Enable Transmit
UPC-A Check Digit



Enable UPC-A+2
additional code



Enable UPC-A+5
additional code



*Enable Transmit UPC-A
System Number



Disable UPC-A



*Disable UPC-A
to EAN13



Disable Transmit
UPC-A Check Digit



*Disable UPC-A+2
additional code



*Disable UPC-A+5
additional code



Disable Transmit UPC-A
System Number

Interleaved 2 of 5



*Enable Interleaved
2 of 5



Disable Interleaved
2 of 5

Matrix 2 of 5



Enable Matrix 2 of 5



*Disable Matrix 2 of 5

Industrial 2 of 5



Enable Industrial 2 of 5



*Disable Industrial 2 of 5

Standard 2 of 5 (IATA 2 of 5)



Enable Standard 2 of 5



*Disable Standard 2 of 5

Code 39



*Enable Code 39



Disable Code 39



Enable Code 39 Output
Start Character



*Disable Code 39 Output
Start Character



Enable Code 39
Full ASCII



*Disable Code 39
Full ASCII

Code 32



Enable Code 32



*Disable Code 32

Codabar



*Enable Codabar



Disable Codabar

Code 93



*Enable Code 93



Disable Code 93

Code 11



Enable Code 11



*Disable Code 11

MSI Plessey



Enable MSI Plessey



*Disable MSI Plessey

GS1 DataBar 14 (RSS-14)



Enable GS1 DataBar
14(RSS-14)



*Disable GS1 DataBar
14(RSS-14)

GS1 DataBar Limited (RSS Limited)



*Enable GS1 DataBar
Limited(RSS Limited)



Disable GS1 DataBar
Limited(RSS Limited)

GS1 DataBar Expanded (RSS Expanded)



*Enable RSS Expanded



Disable RSS Expanded

QR Code



*Enable QR



Disable QR



Enable reading
reverse QR barcode



*Disable reading
reverse QR barcode

Micro QR Code



Enable Micro QR



*Disable Micro QR

PDF 417



*Enable PDF417



Disable PDF417



Enable reading reverse
PDF417 barcode



*Disable reading reverse
PDF417 barcode

Micro PDF 417



Enable Micro PDF417



*Disable Micro PDF417



Enable reading reverse Micro
PDF417 barcode



*Disable reading reverse Micro
PDF417 barcode

Data Matrix



*Enable
Data Matrix



Disable
Data Matrix



Enable reading
reverse Data
Matrix barcode



*Disable reading
reverse Data
Matrix barcode

Aztec Code



Enable Aztec Code



*Disable Aztec Code



Enable reading reverse
Aztec barcode



*Disable reading reverse
Aztec barcode

20 .Hide front and back characters

The scanner permits 4 bytes at most to be Hidden at the beginning or the end of the scanned barcode. If the Hidden character length exceeds the barcode data, the entire content of the scanned barcode is deleted.

Step 1:

Select the appropriate settings to scan the barcode according to the requirements, and set the front or back of the hidden barcode.



Hide Front Barcode



Hide Back Barcode

Step 2:

Select the appropriate setting barcode according to your needs and set the number of hidden byte.



Hide 1 bits



Hide 2 bits



Hide 3 bits



Hide 4 bits

if you want to cancel hide the front character, scan the
below set codes



Cancel to hide the front character

if you want to cancel hide the back character, scan the
below set codes



Cancel to hide the back character

21 .Add prefix and suffix

The scanner permits 32 bytes at most to be added at the beginning or the end of the scanned barcode.

Step 1:

Select the appropriate bar code to scan according to the requirements, and set the prefix and suffix to add.



Add Prefix



Add Suffix

Step 2:

Scan the code corresponding to the value in Appendix A(turn to page 39)

**if you want to cancel add the prefix, You can scan
the set code as below:**



Add Prefix



Save and Exit

**if you want to cancel add the suffix, You can scan
the set code as below:**



Add suffix



Save and Exit

22.Appendix A



SOH



^B



^C



EOT



ENQ



ACK



BEL



Back Space



Tab



LF



VT



FF



CR



F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



F11



F12



SUB



Esc



Right Arrow



Left Arrow



Up Arrow



Down Arrow



空格



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