# W26 Series Product Laser Ring Scanner

**User Manual** 





# Disclaimer

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Please read through the manual carefully before using the product and operate it according to the manual. It is advised that you should keep this manual for future reference.

Do not disassemble the device or remove the seal label from the device. Otherwise, Shanghai Hyco Genyong Technology Co., Ltd. does not assume responsibility for the warranty or replacement.

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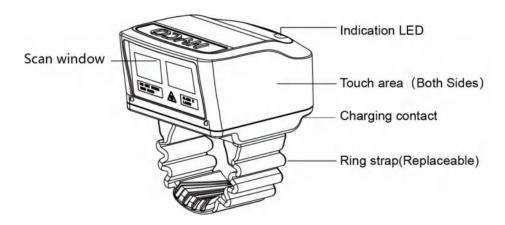
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Please visit www.hycoiot.com or check the latest version of the specification sheet for the latest product information

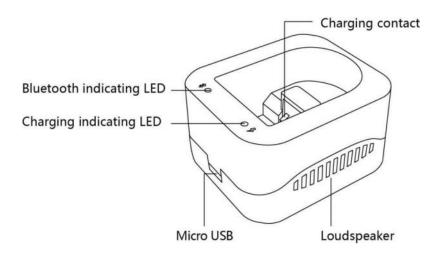
# Design

#### **Ring Scanner**



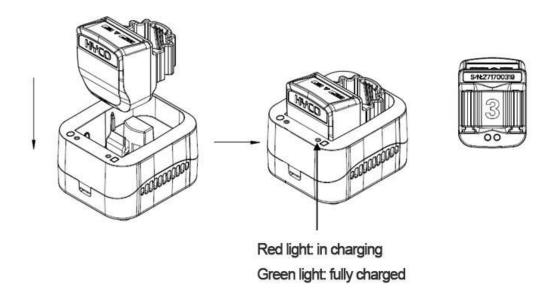
- \* Wearing: wear on index finger on left or right hand
- \* Scanning: touch either side of ring body with thumb finger to trigger the scanning

# Ring scanner charging cradle (Bluetooth Receiver)



# **Charging**

#### 1. Charging Ring Scanner



Charging Illustration 1

**Charging Illustration 2** 

- \* Connect the Ring scanner charging cradle to power, click the ring scanner into the bottom of cradle with the scan window upward. Please note the power contacts of the ring and cradle must be touched.
- \* The red light indicates it is in charging, when the green light turns on, it's finished charging.

Warning: don't look straightly into the scan window when scanning in case of harm to eyes.

# 2. Take the Ring Scanner out of the Ring scanner charging cradle

Hold the middle of the ring scanner gently and pull out upward from the cradle.

# **Ring Scanner Modes**

#### 1.SPP Mode (default factory settings)

Charging cradle connection and program docking mode

COMMON



To connection with PC via USB cradle, scan COMMON code, and scanning barcode is available. (Random terminal system is acceptable with the cradle)

In this protocol transmission mode, if you need different system programs docking, please get the relevant development SDK at the official website or contact the relevant agent technical support.

#### 2. HID Mode

Use the terminal device directly. Output barcodes in HID keyboard mode searched by default Bluetooth. According to the actual system, scan the barcode corresponding to the system and connect.



If the device is connected to IOS smart phone/tablet, scan the IOS code to read the barcodes.



If the device is connected to ANDROID smart phone/tablet, scan the ANDROID code to read the barcodes.

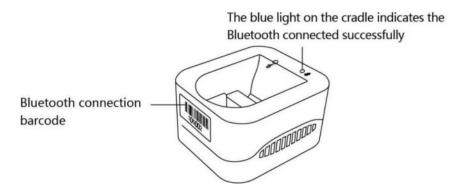


If the device is connected to WINDOWS smart phone/tablet, scan the WINDOWS code to read the barcodes.

## **Bluetooth connection**

#### **Connect with PC:**

Connect the cradle with the PC with USB, and the green light means normal connection. After 15 seconds, scan the Bluetooth connection barcode with the ring scanner, and a blue light indicates successful connection.



#### **Connect with Android smart phone/tablet:**

First, find the Bluetooth connection barcode on the side of the cradle, scan it with the ring scanner, and change the Bluetooth name to the serial number so that the device can be found;

Then open 'Bluetooth Search' at the setting menu, find the Bluetooth serial number in the list and connect. Green light indicates successful connection.

# **Components**

Components		Quantity	Usage
	Ring Scanner	1	1.Decode 1D bar codes 2.Bluetooth slave
	Ring Cradle	1	1.Charging cradle 2.Bluetooth receiver
	Charging Adapter	1	Connect adapter to power with USB cable
	USB cable	1	1.Connect charger to USB port     2.Connect charger to charging adapter
E S	Ring Band (Swappable)	1	10 pcs in different sizes
Certificate	Certificate	1	Factory certification
Instruction	User Manual	1	Device description and usage instruction

# **Specifications**

Model	W26	
Scanner	HYCO High-speed laser scanner	
Code Reading	Printed barcodes	
Scanning Distance	General and macro type	
Weight	0.7 oz (20 grams)	
Dimensions (W*D*H)	38.6mm*29.0mm*22.1mm	
Ring Bands	10 pcs in different sizes	
Bluetooth	BT4.2, BLE	
LED Indicator	RGB LED (programmable)	
Vibration Indicator	Supported	
Battery	200mAh@3.7V	
Charging Cradle	With USB dongle and Bluetooth adapter	
Battery Life	18 hours (when fully charged with 15-20cm depth of field, and scanning once every 5 seconds)	
Scanning Trigger	Touch-to-scan	
Touch Button	High sensitivity even with gloves	
IP Level	IP66	
Drop Test	3 meters	
Operating Temperature	-10°C to 50°C (14°F to 122°F)	
Humidity	0%-95%RH (non condensing)	

Note: For Ring Scanner and Ring scanner charging cradle, operating temperature is  $-10^{\circ}\text{C}$  to  $50^{\circ}\text{C}$ 

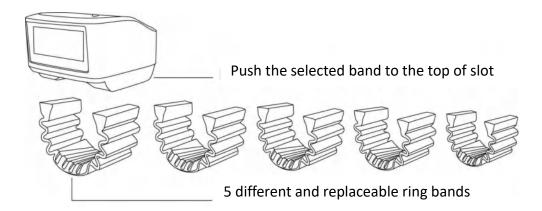
#### **Functions**

#### 1.Scanning

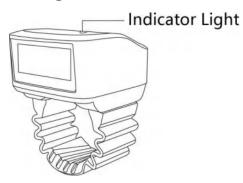
Wear on left or right index finger, touch left or right side of ring and aim at the barcode, the ring light turns green, it starts to scan.

#### 2.Ring Bands

Firstly, straightly pull out ring band from the slot, then choose another ring band and push it to the top of slot.



#### 3.Ring Indicator



- \* The green light indicates successful scanning.
- \* The red light flashing indicates low battery.
- \* The green light keeping on for 1 second indicates successful Bluetooth connection.
- \* The blue light keeping on for 1 second indicates Bluetooth disconnection.
- \* The red, green and blue light flashing indicates restarting.

#### 4.Bluetooth can't connect

Normally, if the Bluetooth light doesn't turn on, user can scan the barcode "Reset

Bluetooth Name", wait for 10 seconds, and reconnect.

Reset Bluetooth Name



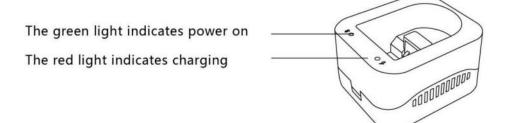
Restore factory settings



Scan the barcode "Restore factory settings", the ring will disconnect Bluetooth connection with terminal devices, and all the settings will change to factory default.

#### 5. Charging cradle light indicator

The blue light indicates successful Bluetooth connection between ring scanner and cradle.



The red light off while the green light on in charging indicates fully charged.

#### 6. Wake up ring in charging

The ring doesn't work when in charging, while it could be waked up by touching either side of ring three times.

#### 7.Laser calibration

If laser length changes longer or shorter, please stop scanning, touch ring for 4 seconds once and repeat several times to get it right. If it's still abnormal, please scan

the barcode "Automatic calibration".

Restore factory settings



After scan the barcode "Automatic laser calibration", the ring turns on purple, put it on the table, wait for 15 seconds until the purple light turns off. The ring laser is calibrated right and functions normally.

#### 8.Code system on/off

- 1. Basic setting. 4 default code systems on: EAN13, EAN128, CODE128, CODE39; in which CODE128 and CODE39 read at least 2 characters;
- 2. Extended setting. 9 default code systems on: EAN8, EAN13, EAN128, UPCA, UPCE, CODE128, CODE39, CODE93, ITF25; in which CODE128 reads at least 1 character; ITF25 only reads 14 characters as default.

**Default Basic Setting** 



**Default Extended Setting** 



If a code system and code length are not included please contact technical support and local distributor.

#### 9. Touch switches on both sides

The touch switch on the left and right sides of the ring scanner are both on by default. If you need to turn off one side, please use the following barcodes to turn it on/off.

Left Touch Key On



Right Touch Key On



Both Sides Touch Keys On



#### **Service**

Warranty: one year for ring scanner, half year for battery and accessories.

## **Notice**

- » The ring window must be kept clean. Improper usage will breach the limited warranty clause.
- » Avoid rough objects scratching the window.
- » Remove stains from window by soft cloth.
- » Do not spray any liquid onto the window.
- » Use cleaning water to clean.

# **Function barcodes setup**

Change function of scanning after scanning the following barcodes:

**Device information** 



"Device information" barcode includes device information (e.g. serial number, version number, Bluetooth version information).

Vibration open



Vibration close



Scan function code "Vibration Open" to activate vibration function, Scan function code "Vibration close" to close vibration function, Slow down data transmission through ring cradle



Speed up data transmission through ring cradle



In HID mode, scan the barcode "Speed up data transmission through ring cradle", it can accelerate the data transmission speed between the cradle and computer; scan the barcode "Slow down data transmission through ring cradle", it can slow down the data transmission between the cradle and computer.

Triggered continuous scanning



Scan the barcode "Triggered continuous scanning", ring could keep scanning when user keeps touching the ring.

If user wants to change to common scanning, scan the "Manual Trigger Mode" bar code.

Manual Trigger Scanning



"Manual Trigger Mode" is set by default, user needs to touch ring once to scan once.

**Automatic Interval Scanning** 



After scan "Automatic interval scanning" bar code, ring could automatically scan every  $0.5 \sim 3$  seconds without touching (2 seconds by default)

Automatic interval scanning-reduce



After scan "Automatic interval scanning-reduce" barcode, it can expedite the scanning speed once by 0.5 second, the fastest scanning speed is scanning once every 0.5 second.

Automatic interval scanning-increase



After scan "Automatic interval scanning-increase" barcode, it can slow down the scanning speed once by 0.5 second, the slowest scanning speed is scanning once every 3 seconds.

# Scan angle adjustment

According to different barcode length, user needs to change laser length to achieve better scanning effect.

1. Scan "Laser calibration" barcode to activate the function, the ring light turns white and begins to automatically and intermittently scan.

#### Laser calibration



2. After scan "Widen" barcode, the laser length becomes long; after scan "short" barcode, the scan angle becomes short.

Extend laser



Shorten laser



Note: do not extend or shorten more than 10 times one time.

3. Scan "Confirm" barcode, the ring light turns yellow and white, the laser length is confirmed.

Laser confirm



4. Scan "Data generation" barcode, the ring light turns yellow and red, and then turns purple for a while. The laser length is set successfully after the purple light turns off.

Data generation



# **Common functional barcodes**

To meet different needs for customers, there are some functional barcodes used to meet the requirements for different customers.

Add Enter



**Delete Enter** 



After scan "Add Enter" barcode, it can automatically move to next line in the text field after each scanning. If user wants to close the function, scan "Delete Enter" barcode.

After scan "Add the tab" barcode, it can automatically moveto next line in excel after each scanning. If user wants toclose the function, scan "Delete the tab" barcode.

Add TAB



Delete TAB



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