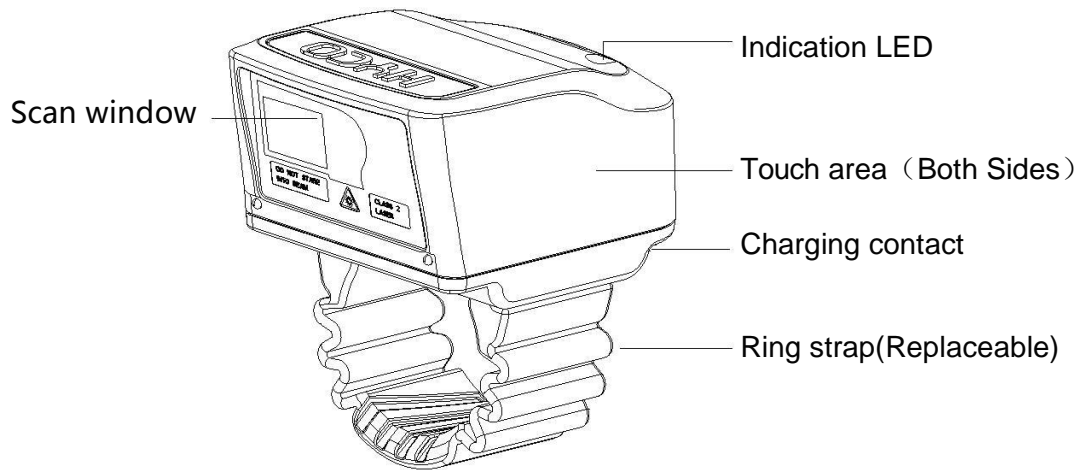


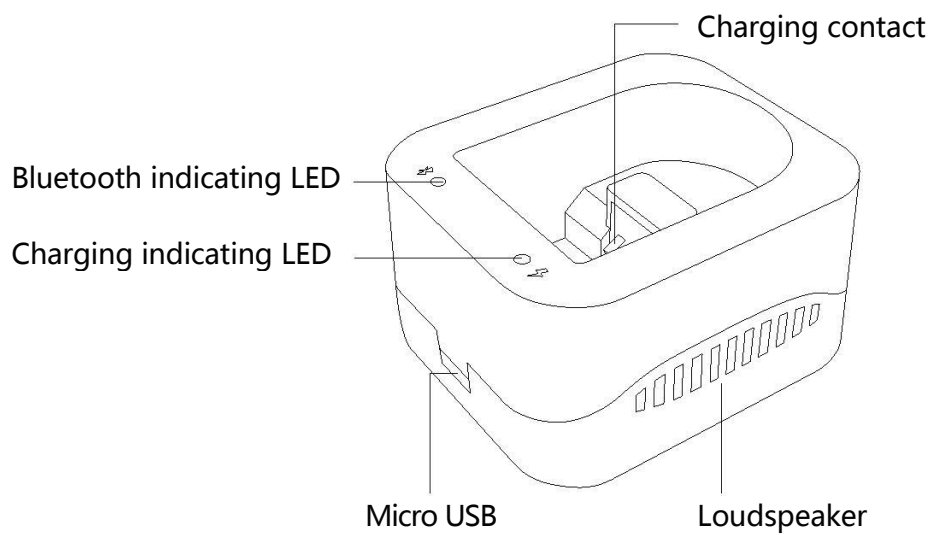
## Design

### ★ Ring Scanner



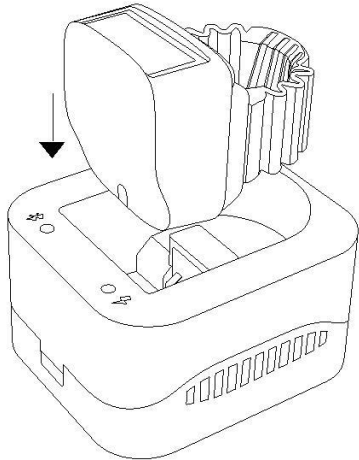
- Wearing: wear on index finger on left or right hand
- Scanning: touch either side of ring body with thumb finger to trigger the scanning

### ★ Ring Cradle (Bluetooth Receiver)

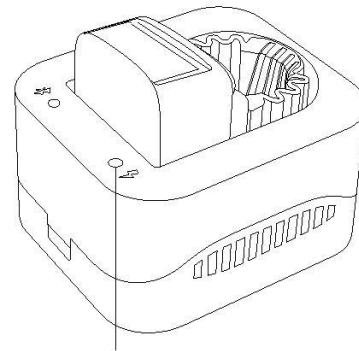


## Charging

### 1. Charging ring scanner



Charging Illustration 1



Red light: in charging  
Green light: fully charged

Charging Illustration 2

- Connect the ring 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 laser harm to eyes.

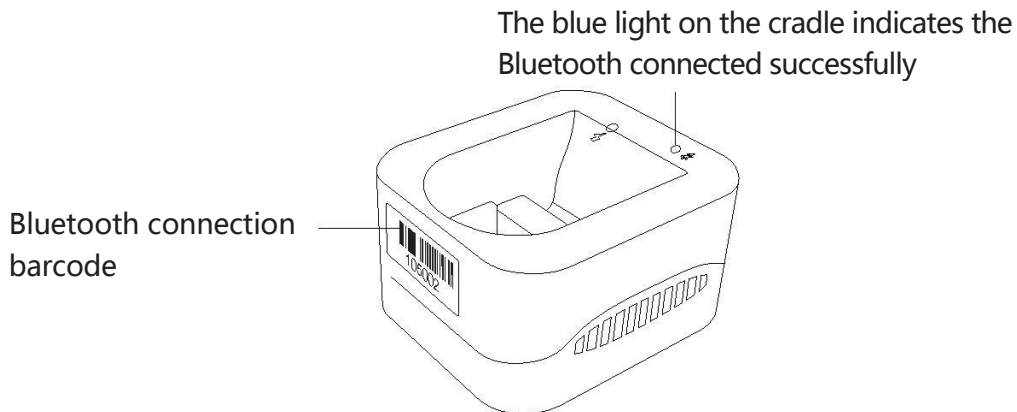
### 2. Take the ring scanner out of the cradle

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

## Bluetooth connection

Connect with PC:

- Firstly, connect the charging cradle with computer via USB cable, the green light on the cradle turns on. Secondly, after 15 seconds, ring scanner scans the "Bluetooth connection" barcode on the front of cradle, the blue light on the cradle indicates the Bluetooth communication between ring scanner and cradle is successfully set up.



Connect with Tablet PC or phone:

- Enter the "Setting" in the Tablet PC or phone, click "Bluetooth search", find the Bluetooth serial number of the ring scanner, choose the corresponding Bluetooth serial number in the searching list. When the ring light turns on green, it indicates successful Bluetooth connection between ring and Tablet PC or phone.

Remark: ring scanner is the slave, and terminal device is the master

Use of applications (APP):

Prerequisites before connecting ring with different devices:  
Change connection with different masters among computer, Tablet PC and phone.

When ring pairs with different terminal devices, user needs to scan different barcode before Bluetooth connection.

COMMON



To connect ring scanner with computer, please scan the barcode "COMMON", but it is set by default.

IOS



To connect ring scanner with Smart Phone or Tablet PC based on IOS system, please scan the barcode "IOS".

### ANDROID





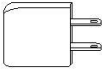




To connect ring scanner with Smart Phone or Tablet PC based on Android system, please scan the barcode "ANDROID".

### WINDOWS



To connect ring scanner with Smart Phone or Tablet PC based on Windows system, please scan the barcode "WINDOWS".

## 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
 Ring strap (swappable)	1	Five different sizes
 Certificate	1	Factory certification
 User manual	1	Device description and usage instruction

## Specifications

Weight	20g (excluding ring strap)
Ring strap	10 pieces (5 different sizes)
Scanner	HYCO laser scanner
Laser wavelength	650nm
Bluetooth	Bluetooth 4.2, BLE
USB	USB2.0
LED	Three different colors
Battery	200mAh@3.7V
Charging time	2.5 hours
Vibration reminder	Support
Charging cradle	Bluetooth receiver, Charging dock, Buzzer
Operating time	12 hours
Touch key	Touch more than 100 million times
Wearing way	on left or right index finger
IP Level	IP66
Drop test	Acceptable multiple drops from 3.0 meters to concrete
Operating temperature	-10°C to +50°C

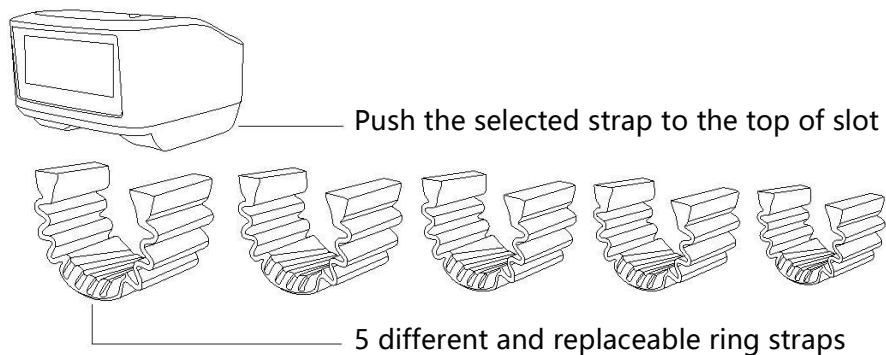
## Functions

### 1. Scanning

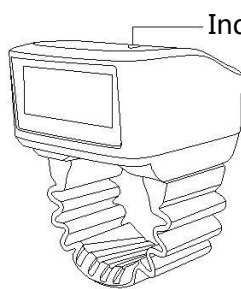
Wear on left or right index finger, touch left or right side of ring and aim at the barcode, the ring light turns green, it starts to scan.

### 2. Ring Straps

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



### 3. Ring Indicator

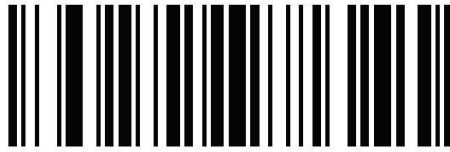


- The green light indicates successful scanning.
- The red light flashing indicates low battery.
- The green light keeping on for 1 second indicates successful Bluetooth connection.
- The blue light keeping on for 1 second indicates Bluetooth disconnection.
- The red, green and blue light flashing indicates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

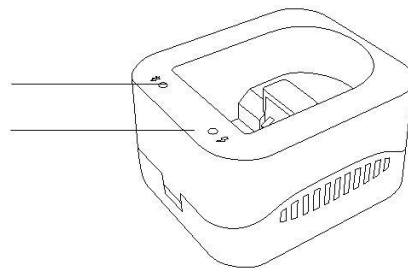
## 5. Charging cradle light indicator

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

The green light indicates power on,

The red light indicates charging,

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.

## SERVICE

1.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.



# HYCO

Shanghai Hyco Genyong Technology Co.,LTD  
Room 105, 1/F, Building B, No.999 of Huaxu Road,  
Qingpu District, Shanghai, CN  
Web: [www.hyco.cc](http://www.hyco.cc)

## Disclaimer

Disclaimer @ 2018 Shanghai Hyco Genyong Technology Co., Ltd. All rights reserved.

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.

All pictures in this manual are for reference only and actual product may differ. Regarding to the product modification and update, Shanghai Hyco Genyong Technology Co., Ltd. reserves the right to make changes to any software or product to improve reliability, function, or design at any time without notice. Besides, the information contained herein is subject to change without prior notice.

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Shanghai Hyco Genyong Technology Co., Ltd.

<http://www.hyco.cc>

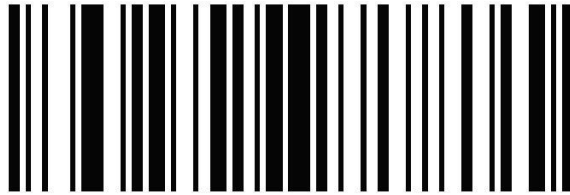


R-C-Hyc-W27  
R-C-Hyc-W2X-USB

# Function barcodes setup

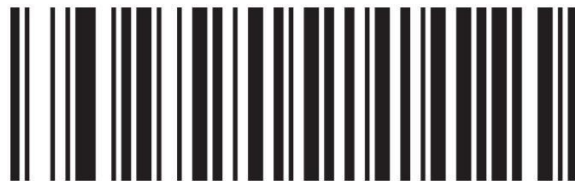
Change function of scanning after scanning the following barcodes:

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

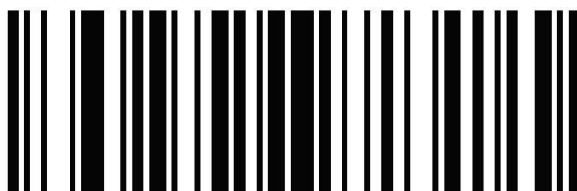


Speed up data transmission through ring cradle



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



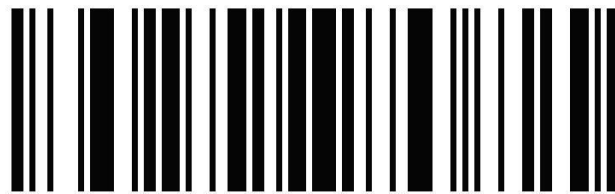
Scan the barcode "Triggered continuous scanning", ring could keep scanning when user keeps touching the ring.

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



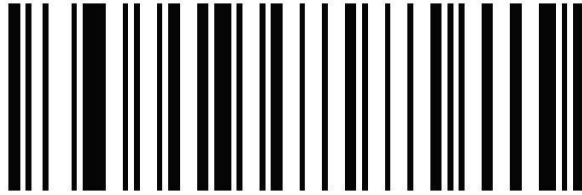
"Manual Trigger Mode" is set by default, user needs to touch ring once to scan once.

#### Automatic Interval Scanning



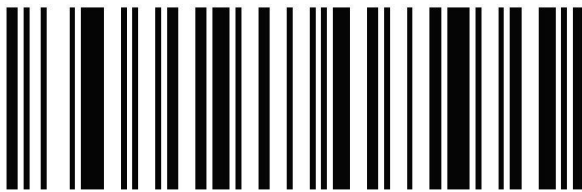
After scan "Automatic interval scanning" bar code, ring could automatically scan every 0.5 ~ 3 seconds without touching (2 seconds by default)

### 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.

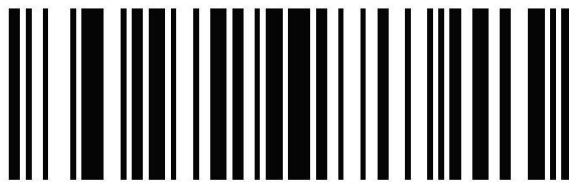
扫描条码“触发式连续扫描”，持续触摸情况下保持长出光状态，可实现条码批量快速扫描。

## Common functional barcodes

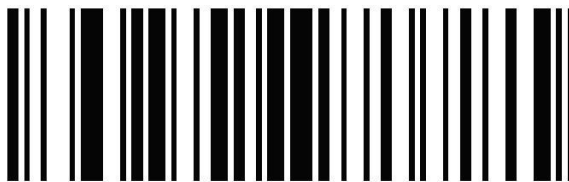
To meet different needs for customers, there are some functional barcodes used to meet the requirements for different customers.

扫描条码“触发式连续扫描”，持续触摸情况下保持长出光状态，可实现条码批量快速扫描。

Add Enter



Delete Enter

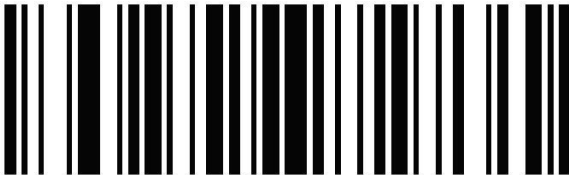


After scan “Add Enter” barcode, it can automatically move to next line in the text field after each scanning. If user wants to close the function, scan “Delete Enter” barcode.

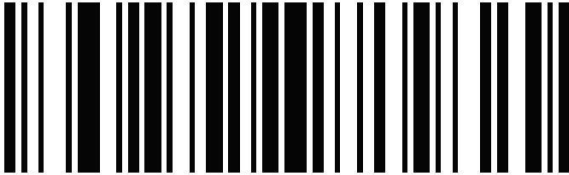


After scan "Add the tab" barcode, it can automatically move to next line in excel after each scanning. If user wants to close the function, scan "Delete the tab" barcode.

Add TAB



Delete TAB



## FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure statement.

The device can be used in portable exposure condition without restriction

**FCC ID: 2ARHS-W27**

Manufacturer's Name: Shanghai Hyco Genyong Technology Co., Ltd.

Sample Description: Ring Scanner

Trade Mark: N/A

Model number: W27

Operating Temperature: -10° C to 40° C

This device was tested for typical body-worn operations. To comply with RF exposure requirements, a minimum separation distance of 5mm must be maintained between the user's body and the handset, including the antenna. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body-worn accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

This device in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. All essential radio test suites have been carried out.

1. CAUTION : RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF

USED BATTERIES ACCORDING TO THE INSTRUCTIONS

2. The device complies with RF specifications when the device used at 5mm from your body

This product can be used across EU member states

CE NB RF specification:

Function	Operation Frequency	Max RF Outputpower (dBm)	Limit (dBm)
BLE	2402-2480MHz	3.76	20

# HYCO

## W27 Ring Scanner User Manual

Shanghai Hycos Genyong Technology Co.,LTD