

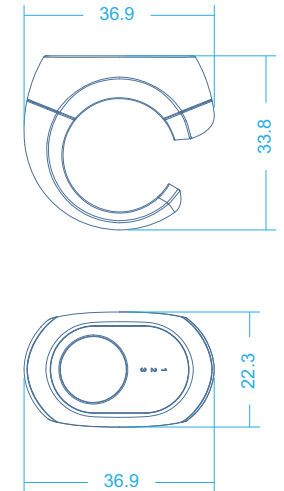
ctrl4U



Ring Control

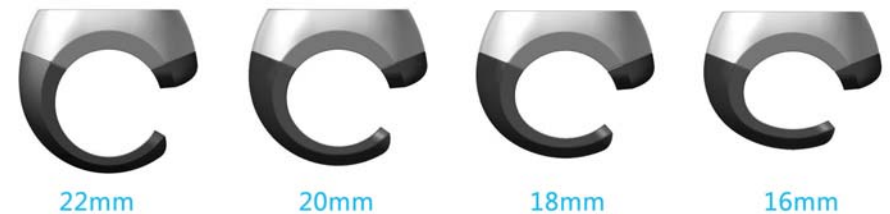
This Bluetooth ring provides convenient remote control for smartphones, tablets, PCs, and other Bluetooth-enabled devices like VR/AR systems and Smart TVs. After pairing via Bluetooth, it can be used as a BT keypad or BT mouse. The ring can connect to up to three frequently used devices, with each device offering three distinct operation modes:

Navigation mode, music mode, and mouse mode.



Innovative ID design

The detachable ring design allows for easy customization with different colors to suit individual aesthetic preferences, and is available in various sizes to fit different finger dimensions.





Optical Finger Navigation Module(OFN)

Motion detection CPI 50 to 3200 CPI,

typical @1000 CPI

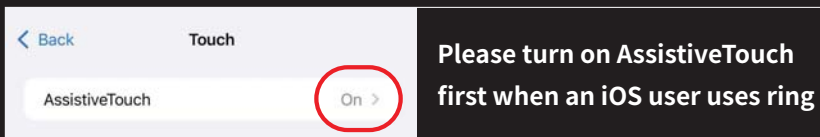
Tracking Speed, maximum 24inch/second

Supported Direction Detection:

Swipe up, swipe down, swipe left, swipe right

Diagonal swipe: upper right, lower right, upper left, lower left

Tap single click, double click





TS button (Tact switch)

	Status	TS button	Duration
1	Wake from sleep	Press 1 time	Less than 0.5 seconds
2	Power off	Press the key 5 times in a row	The interval between each press is less than 0.3 seconds
3	Switch between Navigation A/music B/mouse mode C	Press 2 times quickly	The interval between each press is less than 0.3 seconds
4	Switch Bluetooth 1, 2, 3	Press 3 times quickly	The interval between each press is less than 0.3 seconds
5	Force clear pairing	Press and hold the button for 5 seconds to clear the current Bluetooth pairing, which does not affect the other two Bluetooth Press and hold for more than 10 seconds to clear all pairings.	Press for more than 5 seconds.



Support binding with three Bluetooth devices

Each device supports three operation modes



Navigation Mode



Music Mode



Mouse Mode

Bluetooth devices 1, 2, 3

Cycle switching

Press the TS button
3 times quickly

Between the three modes

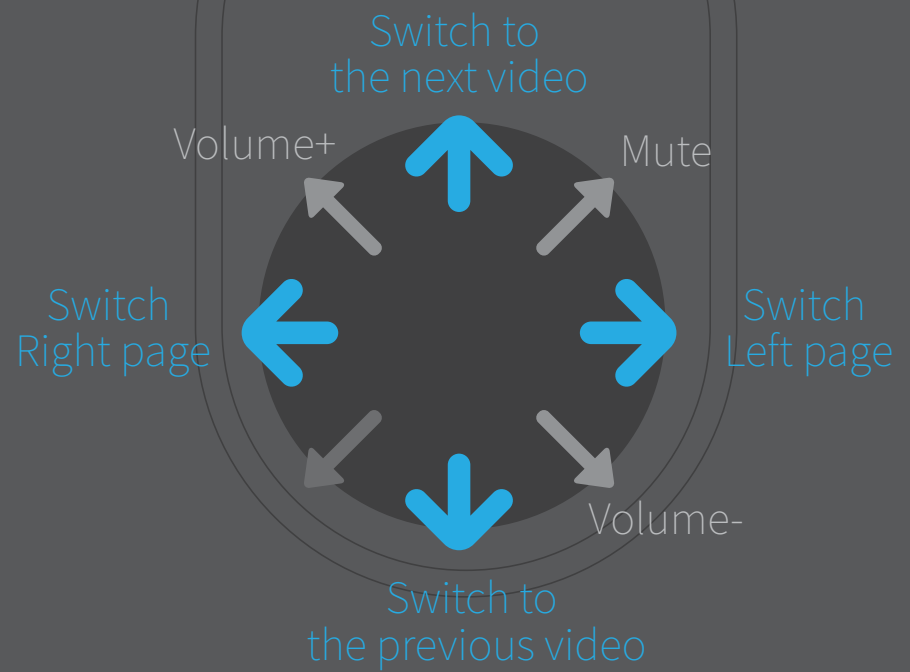
Cycle switching

Press the TS button
2 times quickly

For example, when the current state is in Bluetooth 2 and you switch to Tik Tok mode, the light of blue character 2 flashes 1 time and the motor vibrates 1 time.
When switching to music mode, the blue characters flash 2 times 2 times, and the motor vibrates 2 times.
When the current Bluetooth is not paired, the corresponding blue LED remains on, and the operation of double-clicking the button to switch mode is invalid.



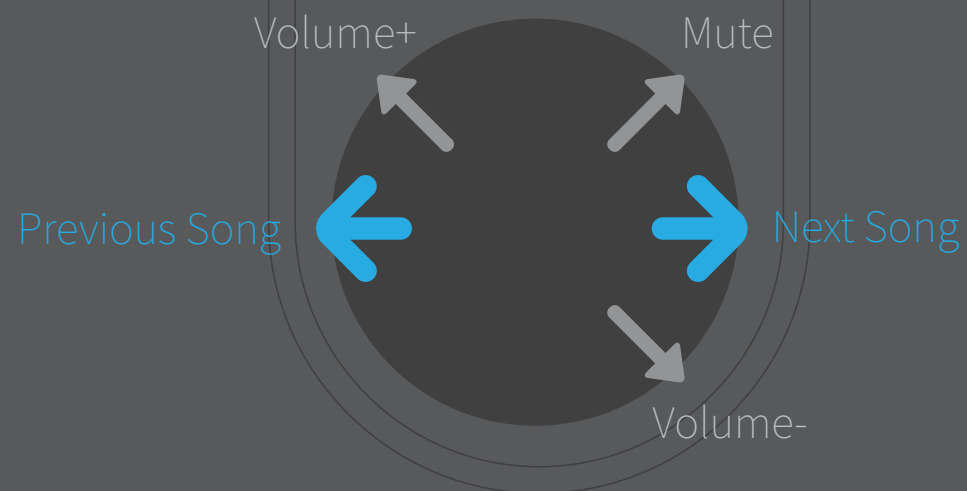
Navigation Mode



- ⦿ + ↑ Double-click + swipe up: Go back to the home page
- Click: Pause/Play
- ⦿ Double-click: Like



Music Mode



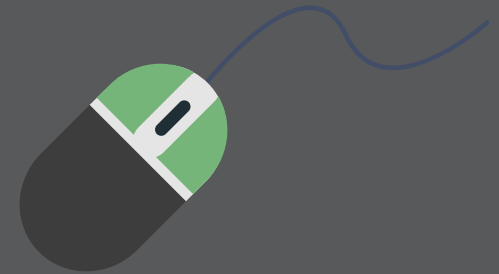
● Click

Pause/Play

Mouse Mode



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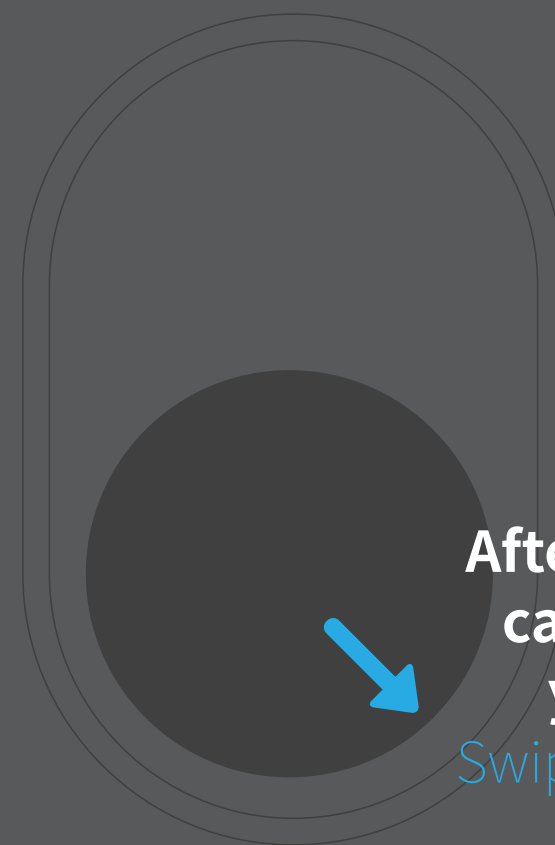


Click OFN = Mouse left button





CAMERA CONTROL



**After opening the
camera app on
your phone**

Swipe up left to take
a photo



MAGNETIC SUCTION CHARGING

**Lithium battery
capacity:**
3.7V/17mAh

Charging current $\leq 25\text{mA}$ **Charging time** $\approx 1\text{ hour}$

**Continuous working time
when fully charged**
 $\approx 7\text{ hours}$

**Continuous standby time
when fully charged**
 $>1\text{ month}$



Indicator

Charging indicator:

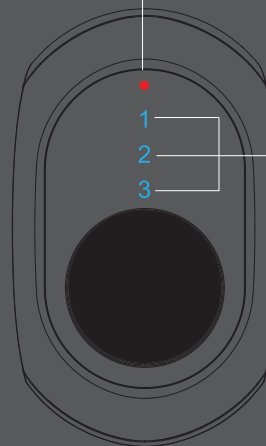
Charging – the red light is on

Fully charged – red light off

Low battery display:

when less than 10%, the red light flashes 1 time every 5 seconds

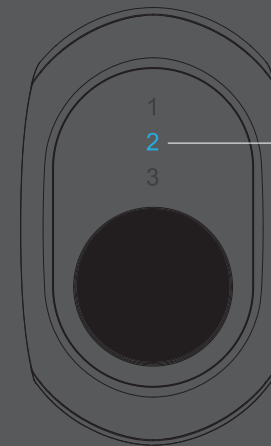
When it is less than 20%, the red light flashes twice every 10 seconds



Digital indicator:

1, 2, and 3 correspond to the three paired Bluetooth devices.

For example, if '2' is lit, it indicates that the current operating device is device '2'."



Instructions:

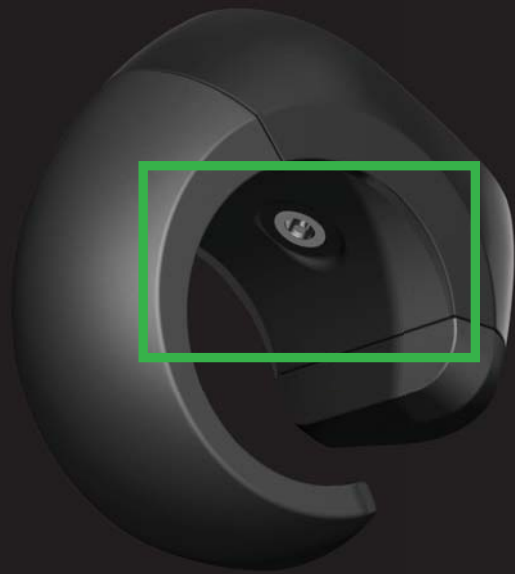
Take device "2" as an example
(Same for each device):

Switch to device "2"	Light up for 3 seconds
Switch to Tik Tok	Flash once
Switch to music	Flash twice
Switch to mouse	Flash three times
Bluetooth 2 wakes up	Flash once
Bluetooth 2 is successfully connected	Flash once
Bluetooth 2 pairing clears	Flash twice



Shutdown and power-on modes

1. Press and hold TS button for one second to turn on, the whole system returns to the working state before the shutdown, and displays the current Bluetooth pairing status, the blue light is solid to indicate that it is not paired, and the blue light flashes to indicate that there is pairing. If the connection is successful, flash 1, 2, and 3 times respectively means that the current mode is Tik Tok, Music, and Mouse mode.
2. Press TS button 5 times in a row, turn off after flashing the red light, and turn on after pressing and holding TS button for 1 second.
3. When the Bluetooth is not connected, there will be no operation for 60 seconds, and the main controller will enter the shutdown mode.



Wear detection function

There is a wear detection sensor on the back of the ring that can detect whether it is worn on the finger or not. If not worn on the finger, the ring will enter a low-power mode, Disable all OFN features.



Bluetooth pairing and clearing

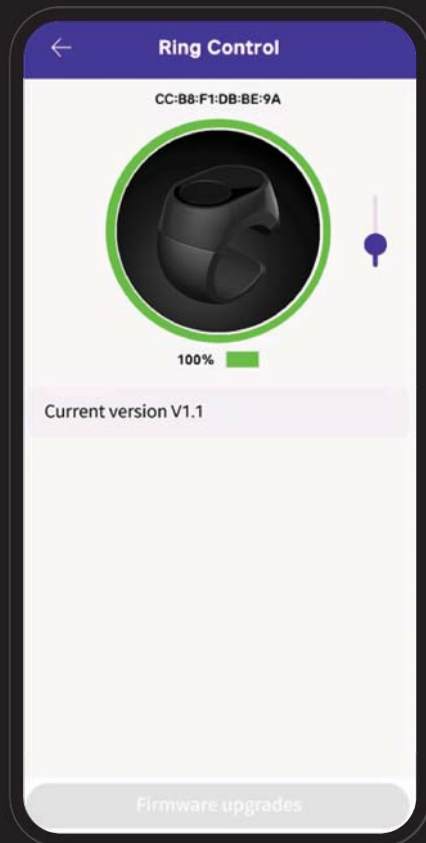
Bluetooth pairing

Open the Bluetooth settings on your phone and search for 'Ring control'. Click to connect; some phones may prompt a pairing confirmation, just click 'OK'. After successful Bluetooth pairing, you can check the connected devices on your phone. The blue light on the Ring Control will flash once, and the motor will vibrate once, indicating that the Bluetooth pairing is successful.

Clear the pairing

After pressing and holding the TS button for 5 seconds, the 'Ring control' flashes the blue light of the current mode twice, and the motor vibrates twice to clear the current Bluetooth pairing.

APP



APP can be passed through the ring battery and version information, Support to upgrade FW:

1. APP supports Ring version management
2. APP supports the detection of new versions in the cloud
3. APP supports OTA upgrades

Manual OTA is supported

Waterproof

IP64

Waterproof, IP64, completely prevent dust from entering, prevent such as light rain, sweat, etc.



Specification

Bluetooth Low Energy 5.3 transmission

Frequency Range: 2402-2480MHz

Transmit power, up to 4dBm

Receive sensitivity -70dBm

Operation range, at least 10m

Max paired device, 3

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typical @1000 CPI

Tracking Speed, maximum 24inch/second

Battery

Rechargeable lithium battery 1x300811, the total capacity is 3.6V/17mAh, and the battery charging current is not more than 25mA.

It can support the product to work continuously for 7 hours.

Low power mode for more than 72 hours

The battery has not been completely depleted for more than 1 month in shutdown mode.

The charging time is about 1 hour.

Operating temperature

The operating temperature range of the product is 0° to 45°

Storage temperature

The storage temperature of the product is -40° to 80°



Warning Statement

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.