



User Manual



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1. Product Description

Snowl is a ring-shaped wearable device that combines 3D motion range with existing 2D devices such as touch screens and computer mice. With Snowl, you can experience precise control over your favorite devices with two main mouse functions: the Air Mouse and the Gesture Mouse, plus two special and fun mouse functions: the Joystick Mouse and the Dedicated App Mouse.

2. Specifications



	Ring device	Charging Cradle
Product	SNOWL (Gesture ring mouse)	
Size	COXi	COXiC
Weight	W12.5mm x T 9.3mm x L 28.5mm	W 50mm x T 50mm x L 72mm
Wireless Connection	5g	30g
Battery Capacity	Bluetooth 4.2 BLE	
Voltage	DC 3.7Vdc / 32mAh lithium ion polymer(LIP)	DC 3.7Vdc / 165mAh lithium ion polymer(LIP)
Compatible	DC 5V / 32mAh	USB 5V / 0.5A
Charging Cable	<div style="display: flex; align-items: center; justify-content: center;"><div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;">Mobile</div><div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;">PC</div></div>	<div style="display: flex; align-items: center; justify-content: center;"><div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;">Android 5.0</div><div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;">Apple iOS 11.0</div><div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;">Apple PadOS 13</div><div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;">Windows 10</div><div style="border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;">Mac OS</div></div>
Charging Cable		USB C-type
Charging Time	30min	30min
Distance	Within 10m (Open space)	
Package Contents	Ring device, Charging cradle, Quick manual, Finger bands, USB C-Type cable	

3. Product Design

▪ Ring Device



▪ Charging Cradle



▪ How to Use Ring Device + Charging Cradle

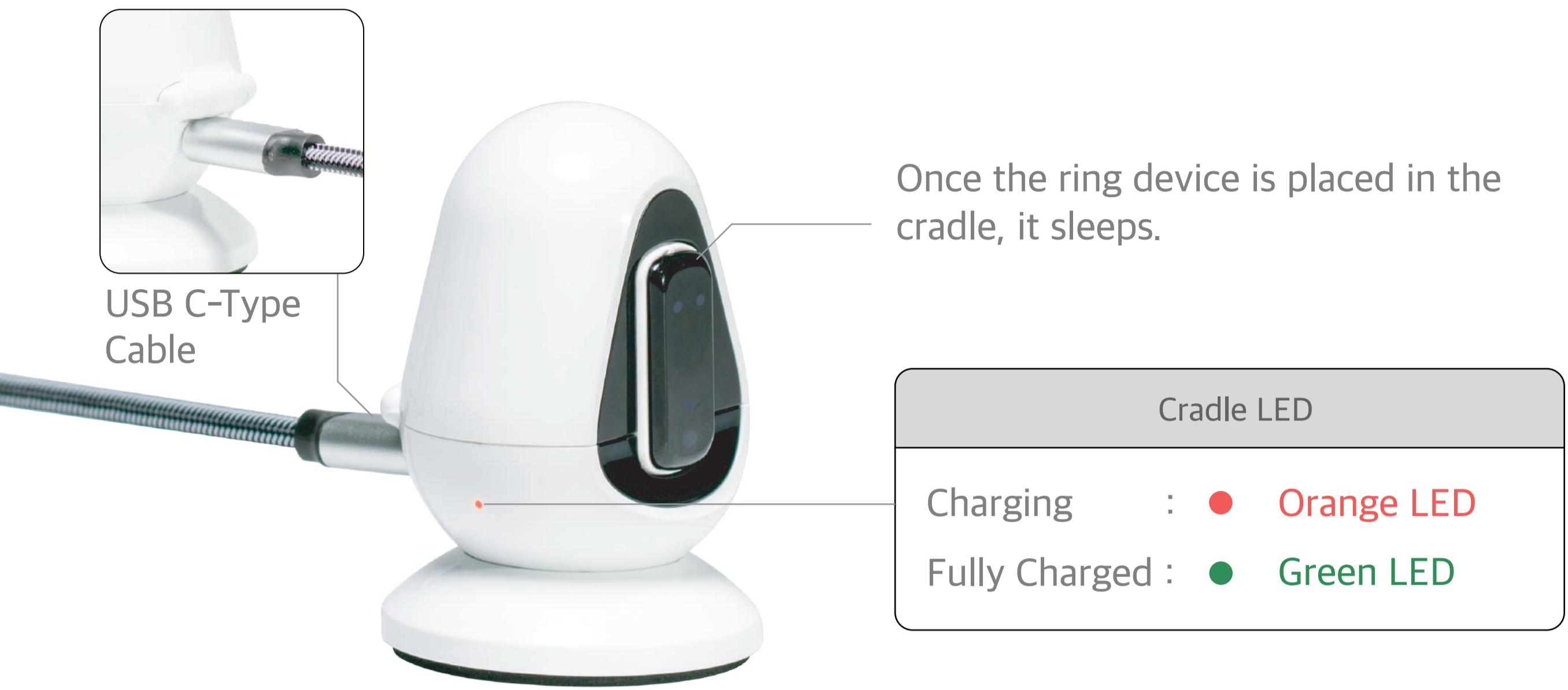
Push Snowl into the empty space in the top lid of the charging cradle.

care the direction of the ring device.



4. Snowl and Charging Cradle

- Use the USB C-type cable from the package to charge the cradle



5. How to Wear

To use the device properly, it must be worn properly.

- Wearing the Ring on Your Finger

The device must be worn on the middle of the index finger(between the upper part of the finger and the middle joint) as shown in the picture below.



Rubber ring is needed to use the metal ring.

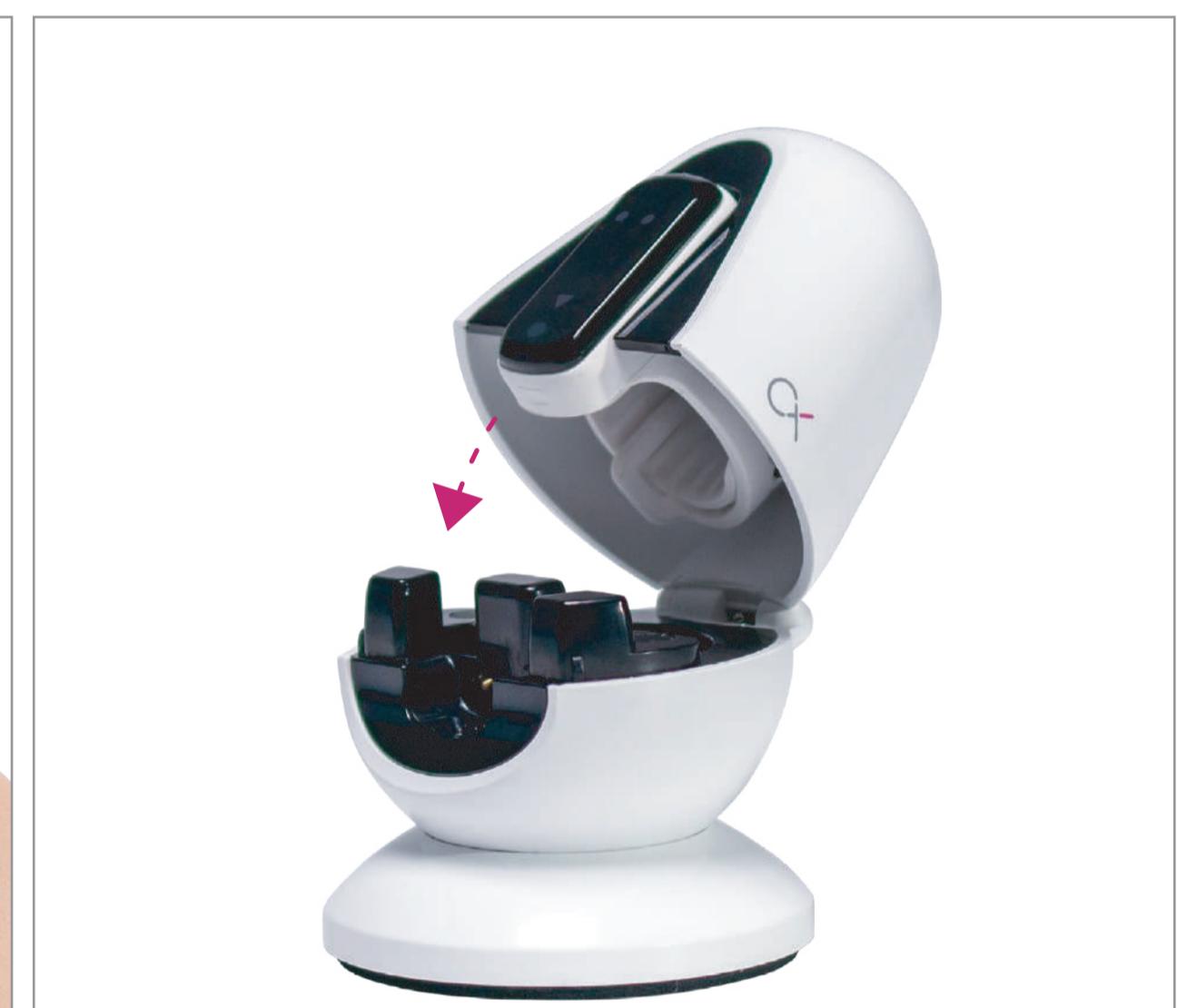




Wear the ring device as shown in the picture.



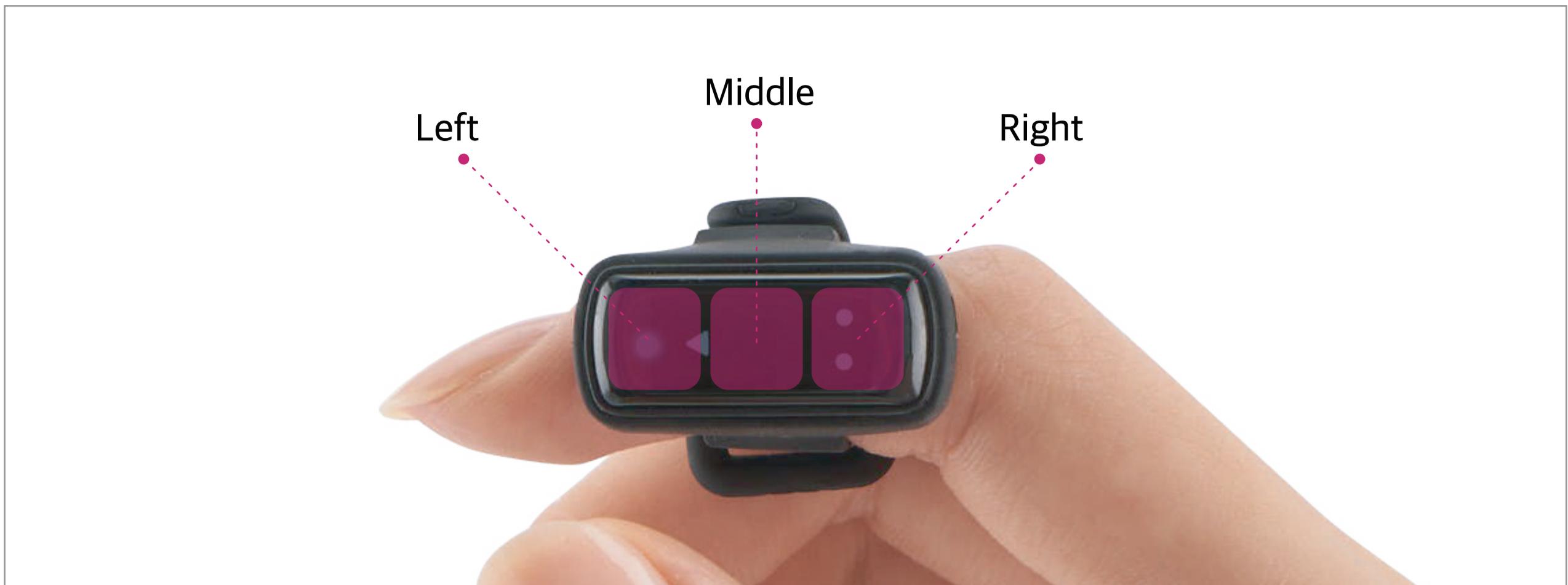
The picture below shows the basic movements.



When placing the device inside the cradle, care the direction and place it into the empty space in the top lid of the charging cradle. After closing the cradle, charging starts.

6. Basics

General Usage



Press left of the front panel.



Press right of the front panel.



Press middle of the front panel.



Swipe from right to left of the front panel.



Swipe from left to right of the front panel.

Pairing

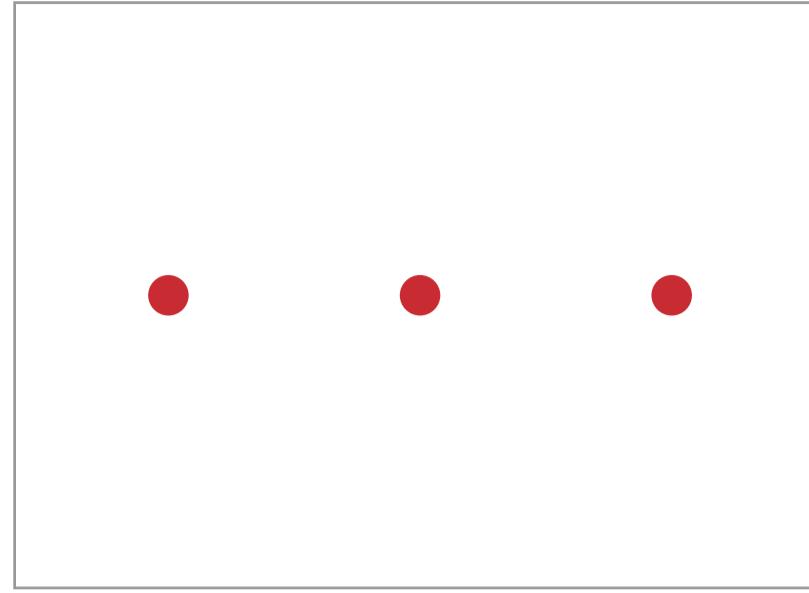
When Worn in Hand



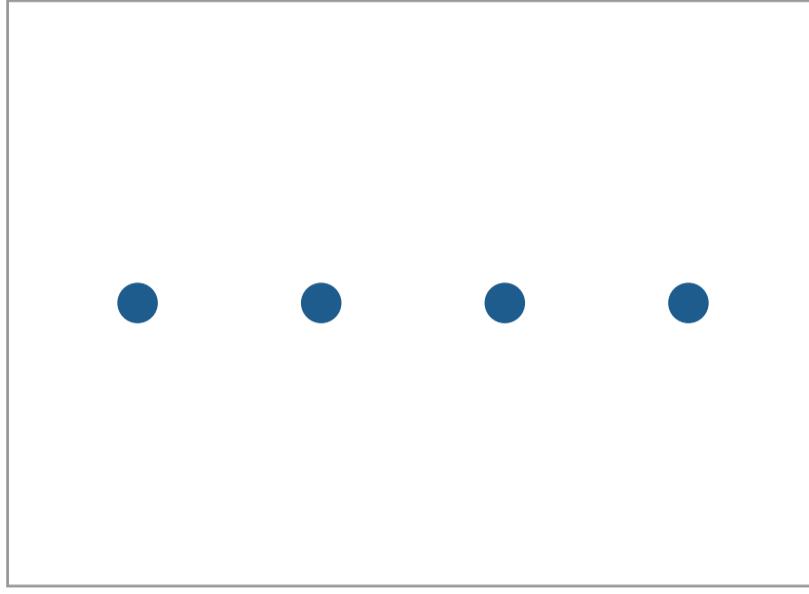
1 Sleep mode



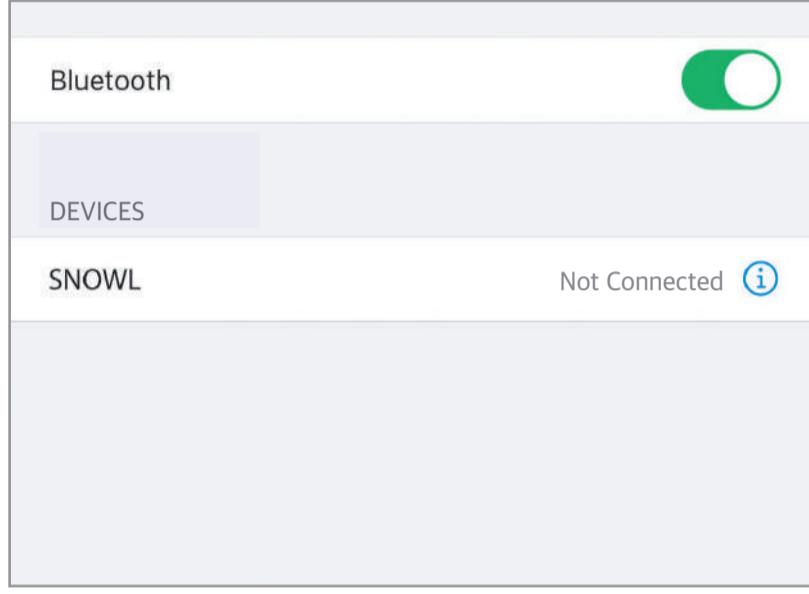
2 Touch the middle for two seconds.



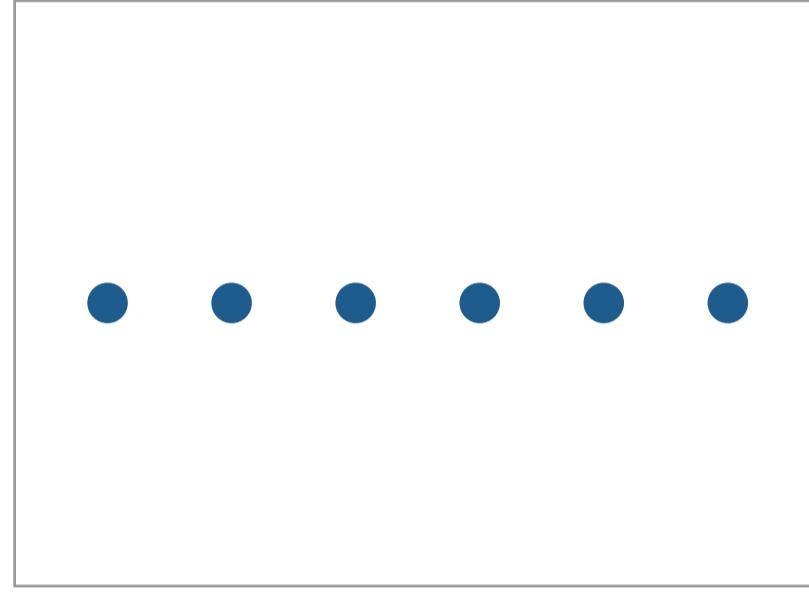
3 Flashes Red LED.



4 Flashes Blue/Green LED.



5 Select Snowl from your PC or smart phones.



6 When Blue/Green LED blinks fast for 1 second, the device is successfully connected.

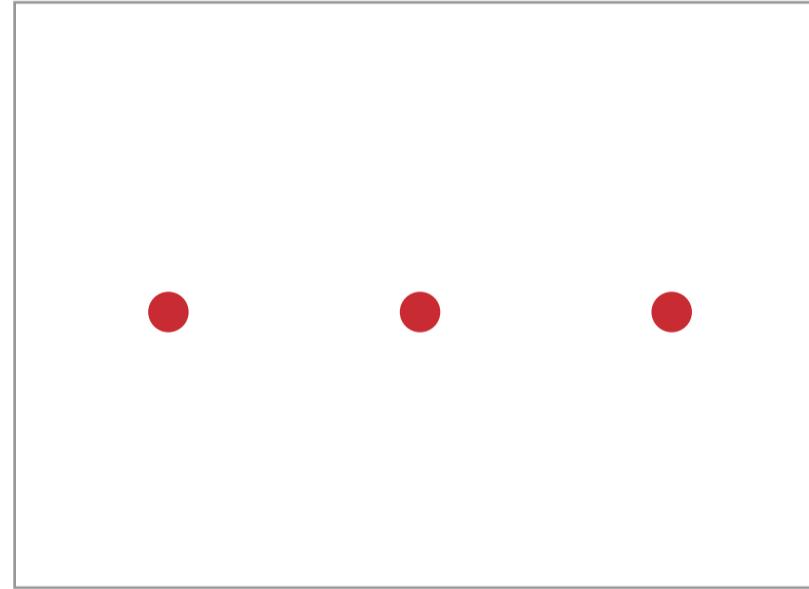
When Charging in the Cradle



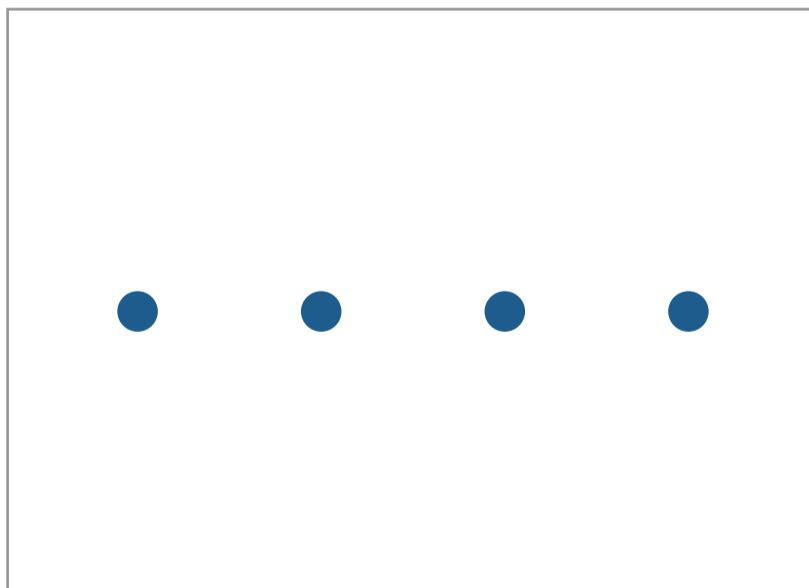
1 Sleep mode.



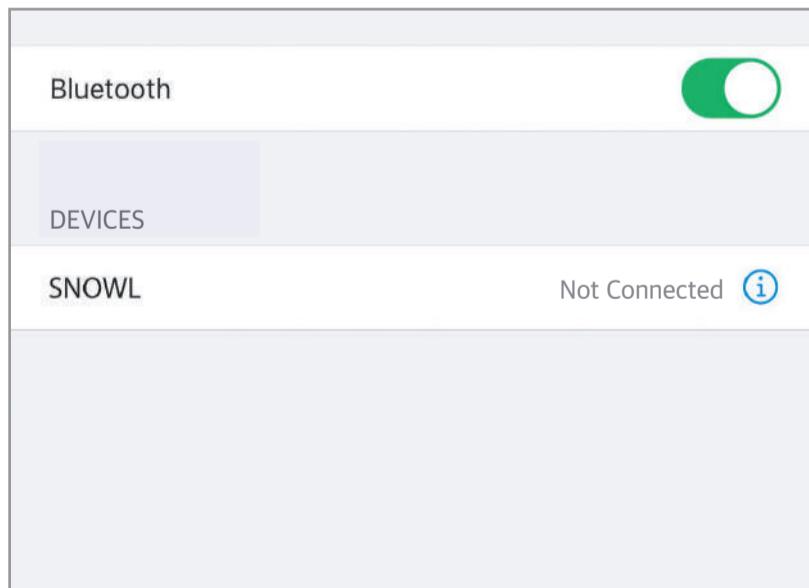
2 Touch the middle for two seconds.



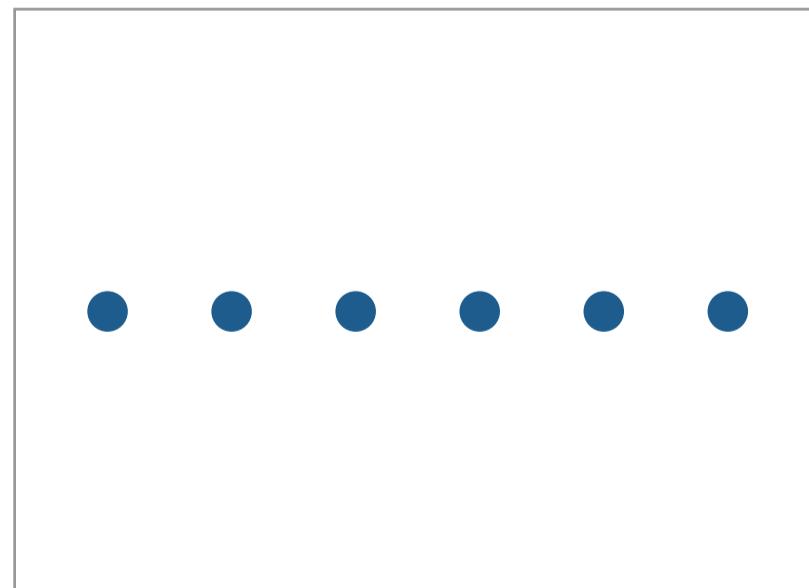
3 Flashes Red LED.



4 Flashes Blue/Green LED.



5 Select Snowl from your PC or smart phones.



6 When Blue/Green LED blinks fast for 1 second, the device is successfully connected.

Multi-Pairing

Two channels are provided for multi-pairing.

Each channels can be paired to a different device just by switching the channel.

Channel 1

● Blue LED Light

Channel 2

● Green LED Light

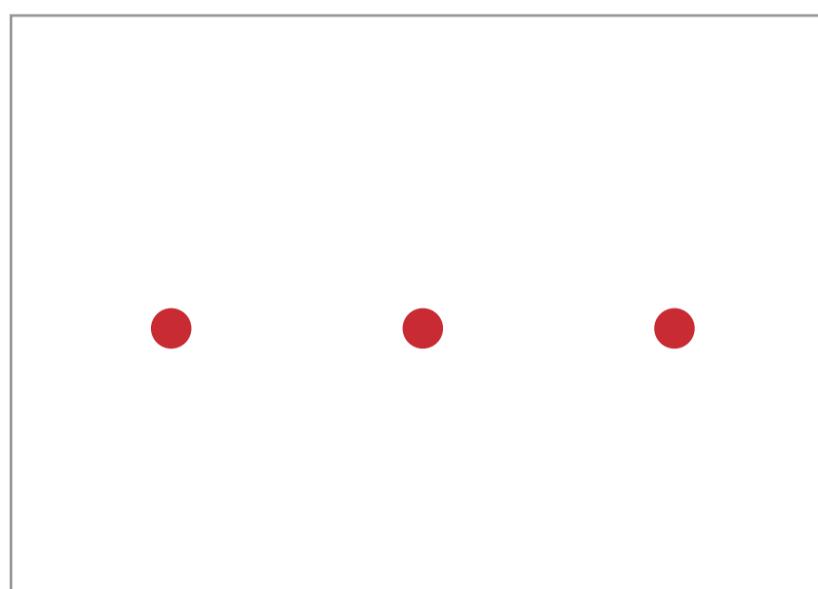
Changing Channels



1 Paired to different device or waiting for connection.

2 Swipe from side to side for more than 3 seconds without taking your finger off.

3 Flashes the LED of the changing Channel.

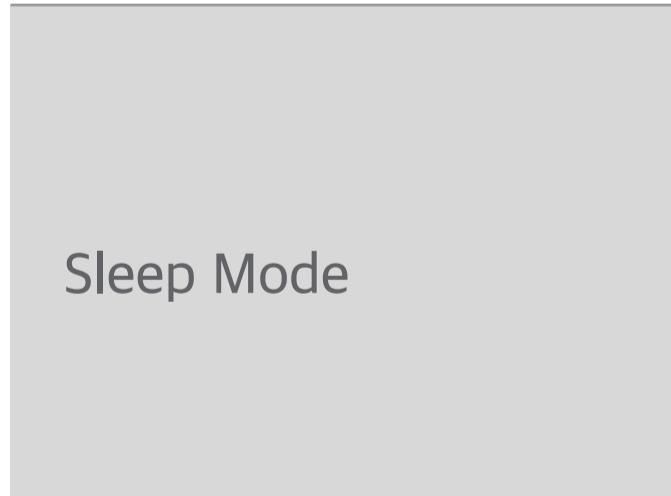


4 Red LED blinks for 3 seconds.

5 If there is a paired device nearby, Snowl flashes blue LED.

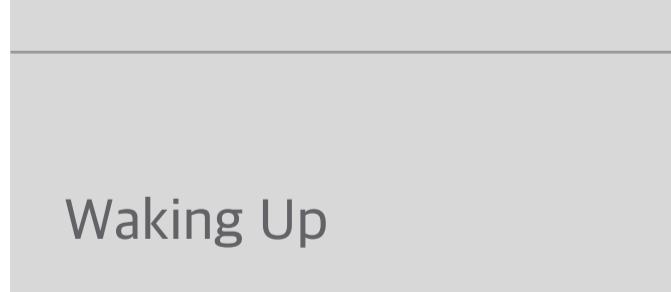
Sleep Mode

When Snowl is in sleep mode, it loses connection and enters power saving mode.



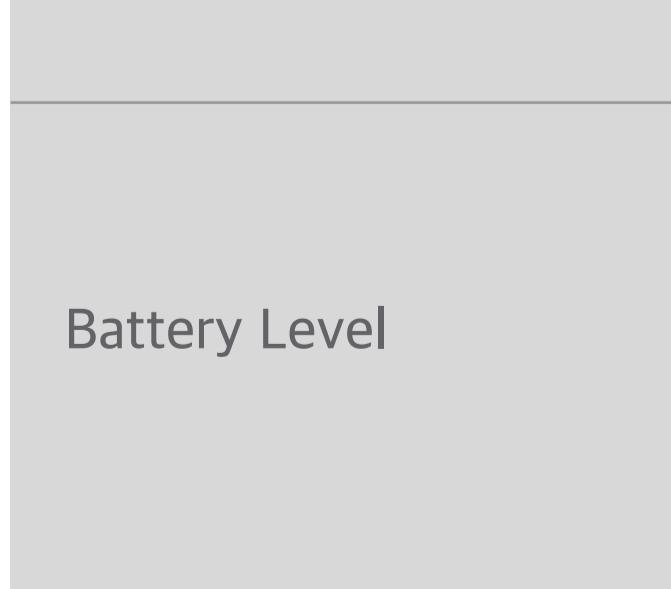
- Snowl will go to sleep when:

- If bluetooth connection is not made within 60 seconds while in "pairing mode"
- No movements for 5 minutes
- When device is placed in the charging cradle

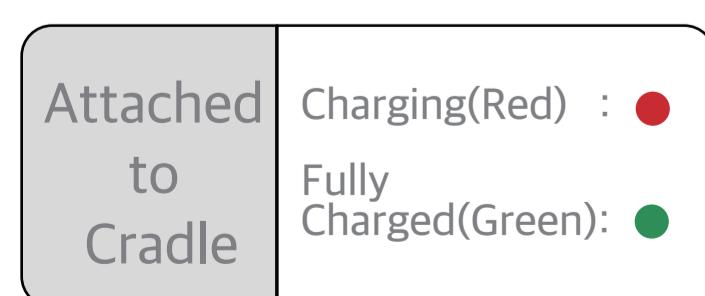


- Touching middle for 2 seconds wakes up the device.

- After waking up, it tries connecting to the paired device.



- Touch middle to check battery level of Snowl



7. Air Mouse & Gesture Mouse Functions

There is an air mouse function that works like a normal mouse, and a gesture mouse function that works by recognizing user gestures. It is easy to switch between two functions for your purpose and will be enjoyable.

Air Mouse	Air mouse works like a normal mouse. Worn on your finger, you can move the pointer, scroll, and click left and right.
Gesture Mouse	Gesture machine learning recorder provides 8 optimized custom user gesture.

▶ Switching between Air and Gesture Mouse



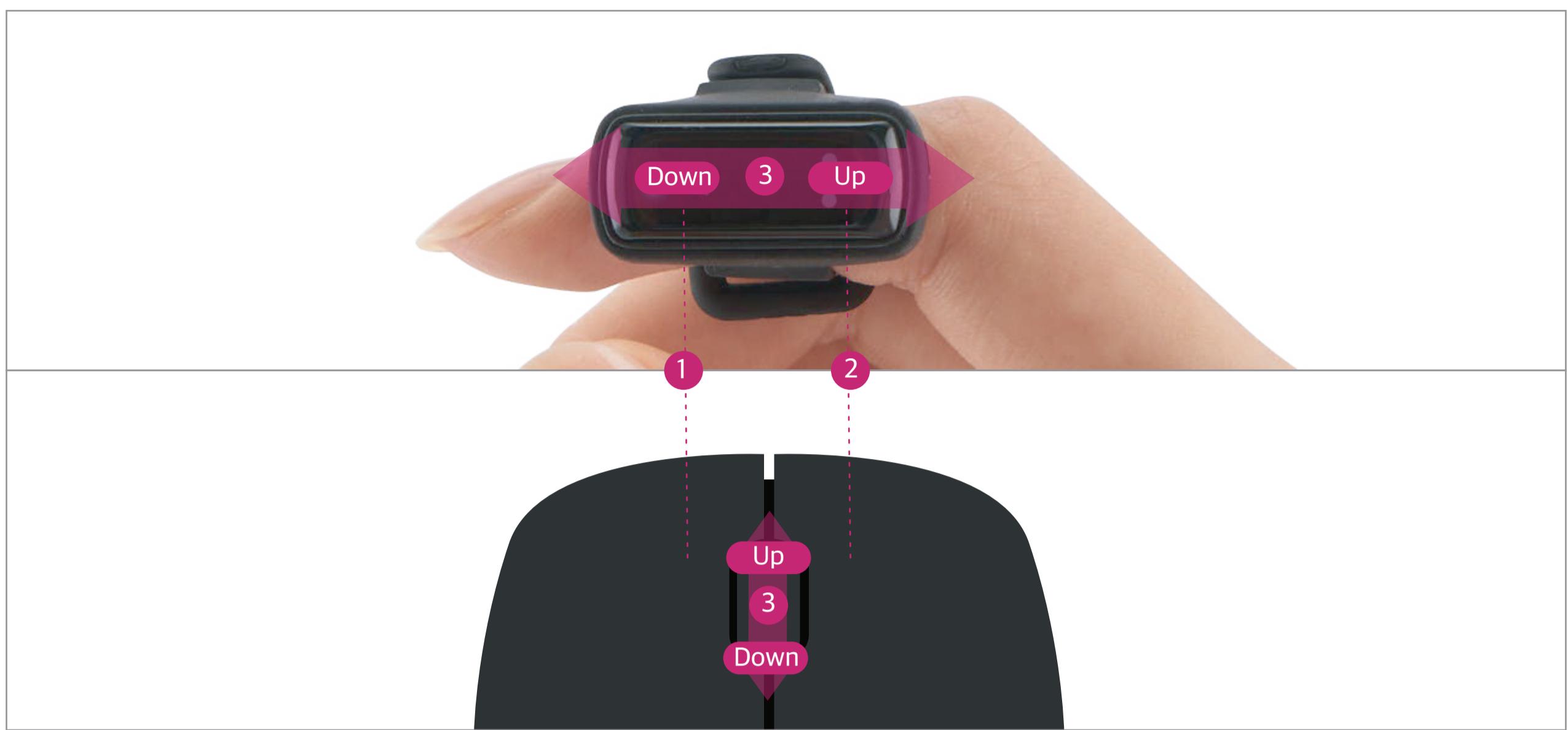
1 Wear Snowl properly.

2 Double tapping right will switch Snowl between air mouse and gesture mouse.

3 When toggled, Blue/Green LED will blink.

■ Air Mouse

By placing the ring device on your finger, you can do normal mouse functions with no restrictions on both hands and there will be no restrictions with a variety of activities.



- ① Same as the left-click of normal mouse.
- ② Same as the right-click of normal mouse.
- ③ Same as the scroll wheel of normal mouse when swiped from side to side.



- ④ Air mouse detects user's motion and automatically pauses when typing.



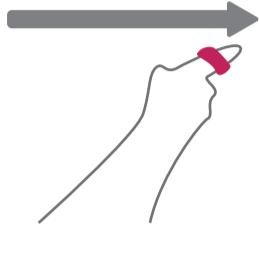
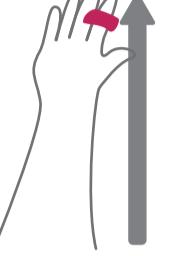
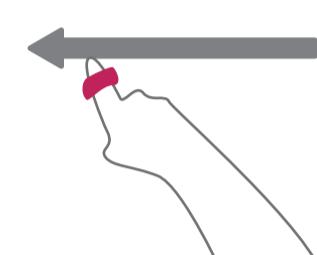
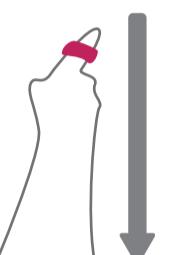
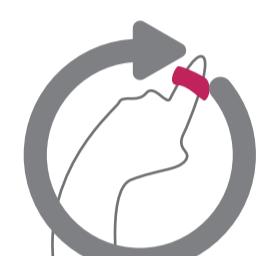
- ⑤ The mouse pointer does not move when you touch the center of the touch panel. This feature is useful for adjusting position of the mouse pointer.

Gesture Mouse

Gesture mouse recognizes 8 gestures and provides various functions.

For precise gesture recognition, you can customize your gesture via machine learning function.(Gesture optimization through repetitive motions)

Gesture & Inputs

Right		 Right arrow key		 Win + tab
Left		 Left arrow key		 Enter
Circle (clockwise)		 Volume UP		 Play / Pause
Circle (counter clockwise)		 Volume Down		 Mute



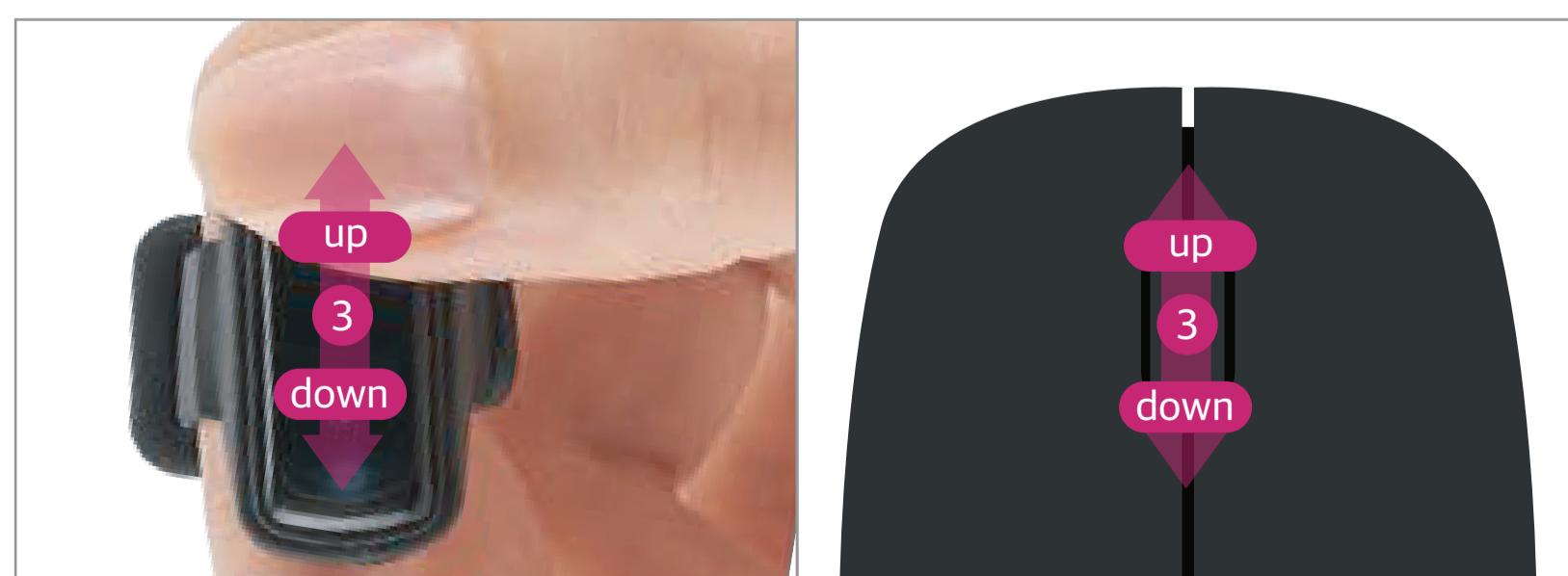
1 You can move the mouse pointer while touching the left side of the touch panel.



ON : ● (Flash once)

OFF : ● (Flash once)

2 You can pause/resume the gesture function by touching the right side of the touch panel for 1 second.

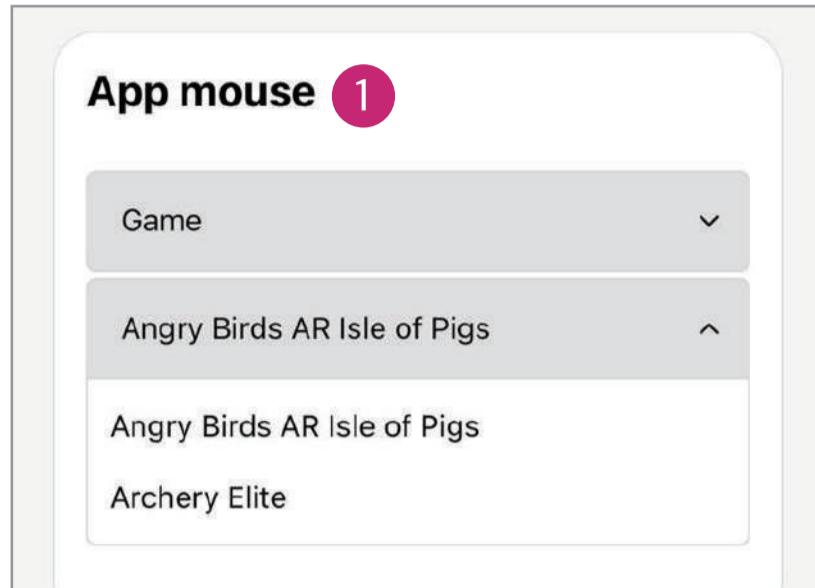


3 Scrolling is possible in the same way as Air mouse #3.

8. ETC

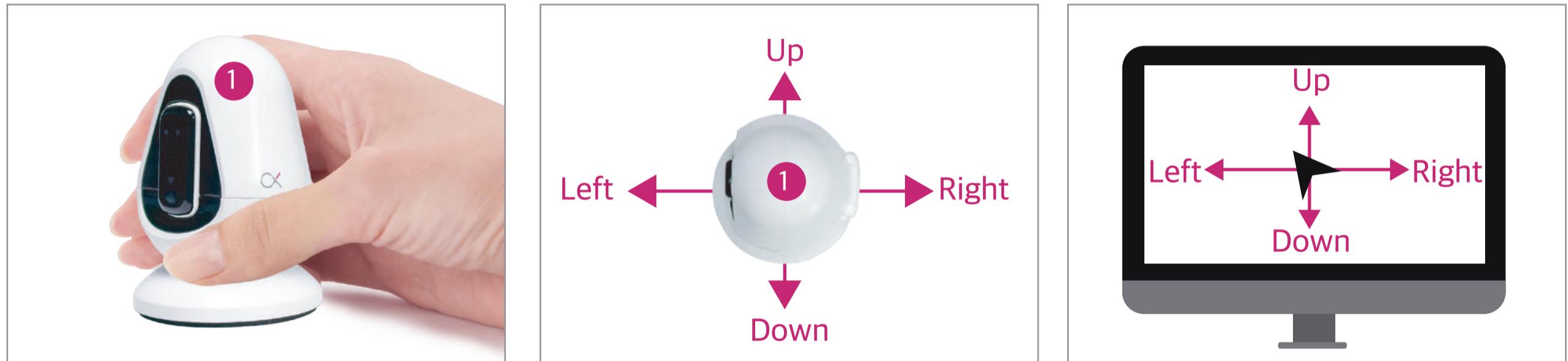
App Mouse

App mouse provides profiles for enjoying available contents.



- 1 You can choose the content from the Snowl app.

Joystick Mouse



- 1 Cradle acts like the joystick. Care the direction of attached Snowl.



- 2 Left side of the touch panel acts the same with left-click.
- 3 Left side of the touch panel acts the same with right-click.



- 4 Left side of the touch panel acts the same with right-click.

9. LED Change According to Snowl Status

Snowl Status	LED Change
Attached to cradle (charging start)	● Red 5sec
Checking Battery level (middle touch while charging)	Charging : ● Red 3sec Fully Charged : ● Green 3sec
Checking Channels (middle touch)	Channel 1 : ● Blue 3sec Channel 2 : ● Green 3sec
Waking up	● Red Blinking 3sec
Bluetooth pairing mode (waiting for connection)	Channel 1 : ● Blue Blinking 1min Channel 2 : ● Green Blinking 1min
Bluetooth paired (connected)	Channel 1 : ● Blue Blinking fast 1sec Channel 2 : ● Green Blinking fast 1sec
Switching Air mouse <-> Gesture mouse	Air mouse : ● Blue Blinking 1sec Gesture mouse : ● Green Blinking 1sec



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