# ORBITA
MOUSE

# User Manual

CYBER ESPORT

www.cyber-e-sport.com

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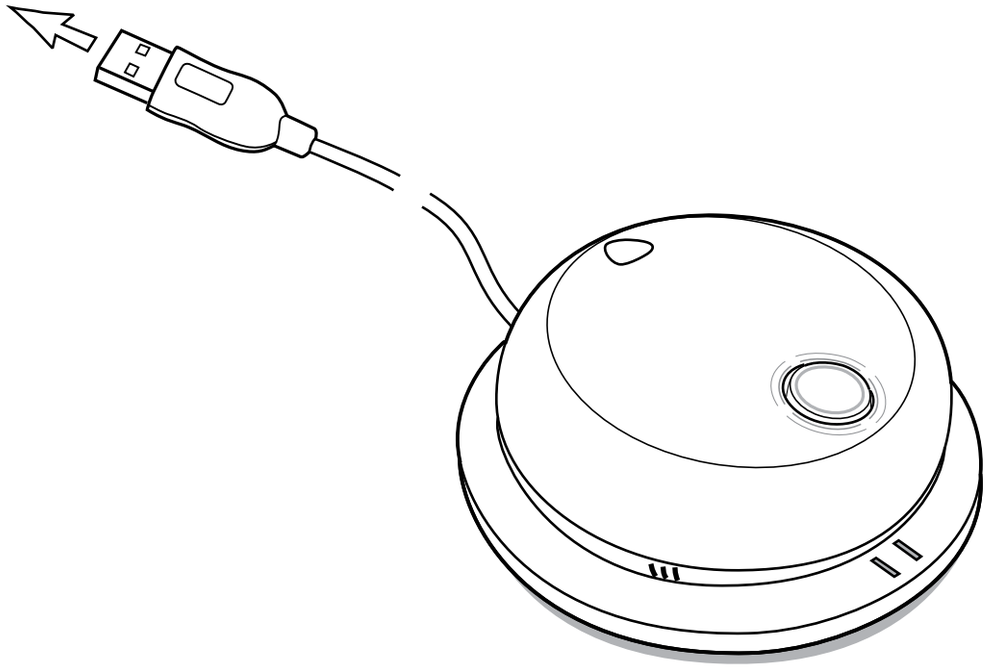
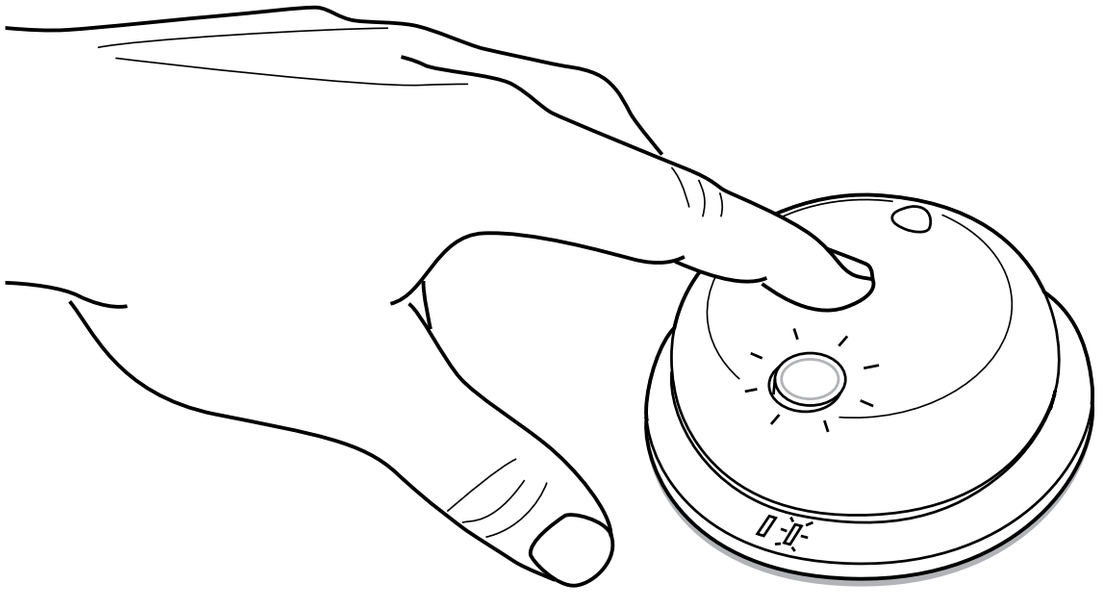
Refer to pages 8-9



3 hours

## 2. Wireless Connect

Refer to pages 10-11



2 seconds

# Quick Start Guide

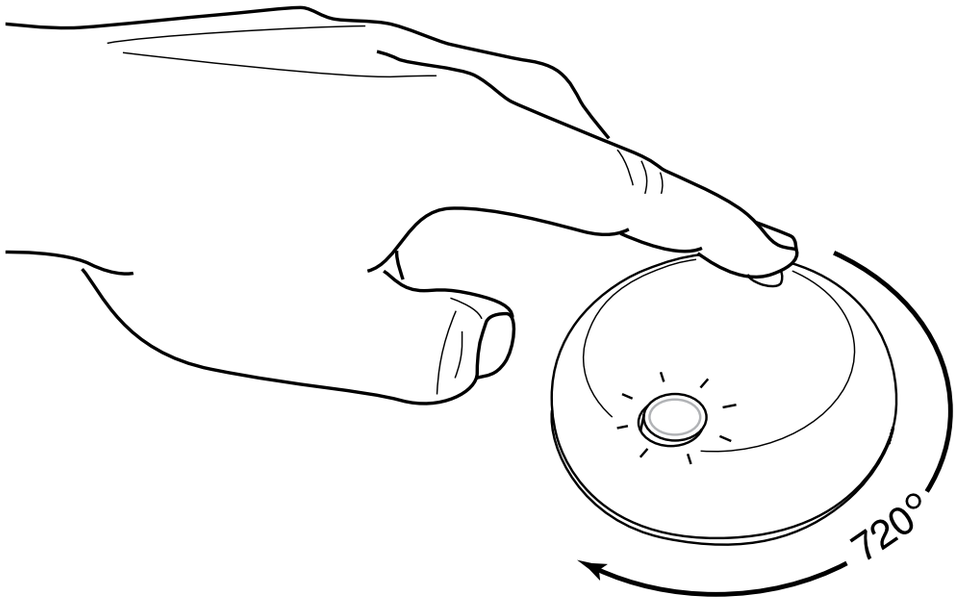
## 3. Calibrate

Refer to pages 12-13

2 seconds

10 seconds

Short press




## 4. Orientate

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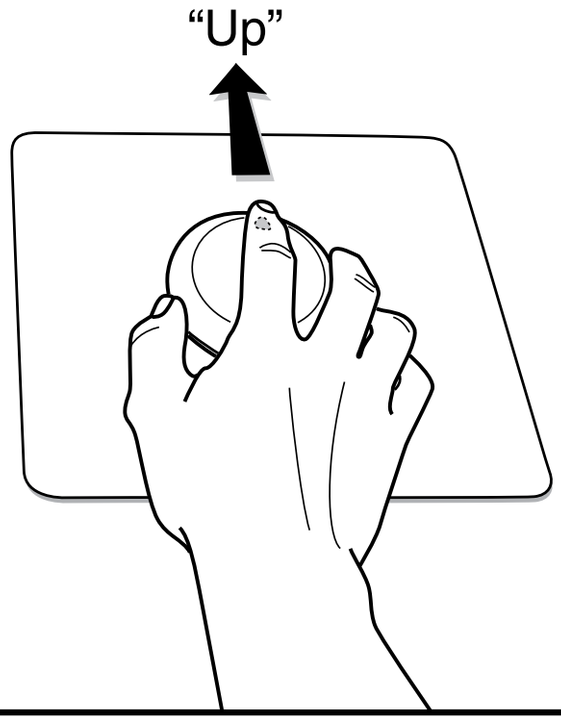
Short press

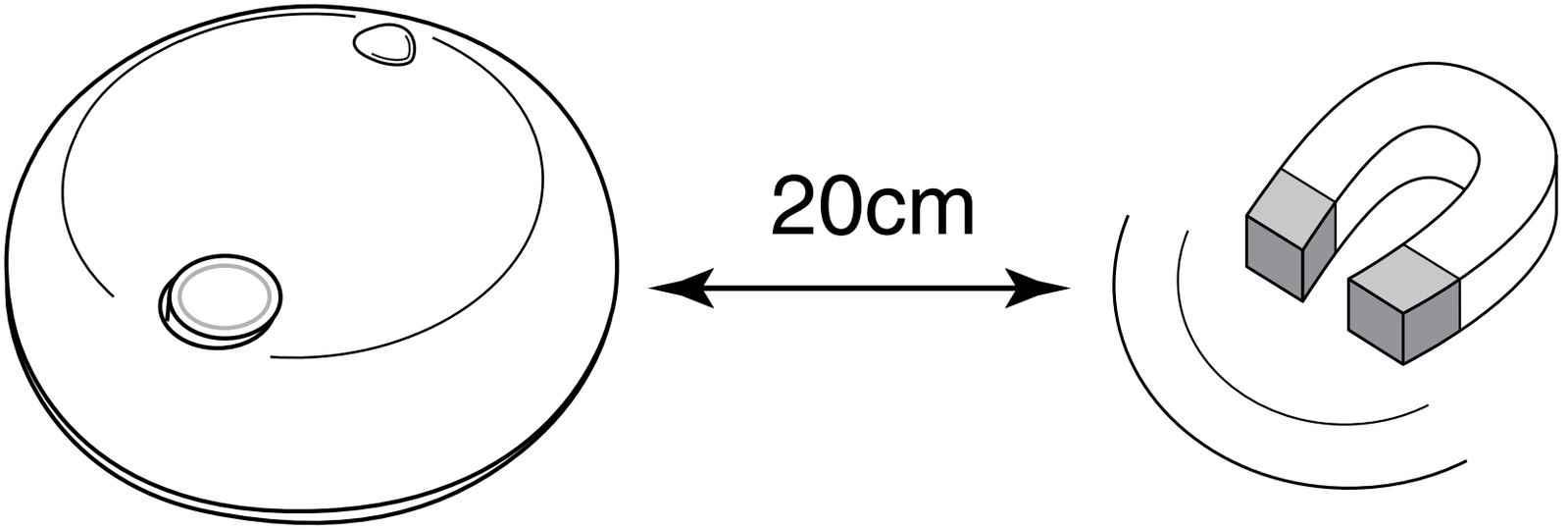


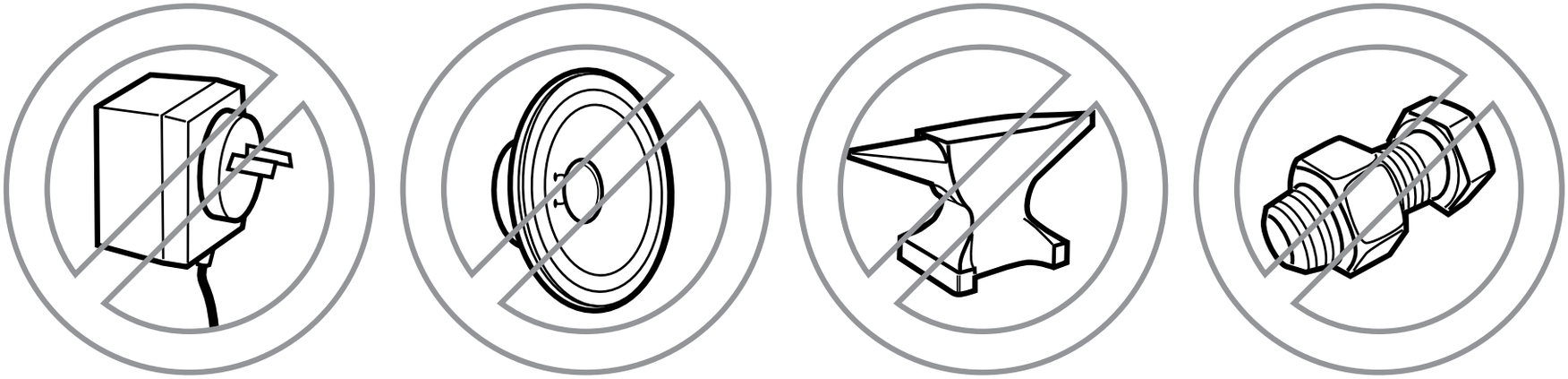
# Warning - Strain Injury

- Do not use the Orbita Mouse for extended periods of time
- Ensure adequate rest time between using the Orbita Mouse
- Ensure your workspace is correctly configured
- Should any pain result from using the Orbita Mouse,
  stop using it immediately
- Take special care if you have any prior history of injury or pain

# Warning - Magnetic Interference

- The Orbita Mouse can be disturbed by magnetic fields nearby
- Avoid objects containing magnets or iron within 20cm of operation
- Be careful of steel components in furniture



# Introduction

Welcome and thank you for purchasing the Orbita Mouse.

With its innovative design and operation, we hope you will enjoy the exciting features of the mouse to enhance interaction with your computer.

Please familiarise yourself with the essential parts of the Orbita Mouse using the diagrams on the next page.

Before you use the Orbita Mouse for the first time, there are a few short steps which you need to take. These steps are described in the next few pages of this user manual. In particular, please:

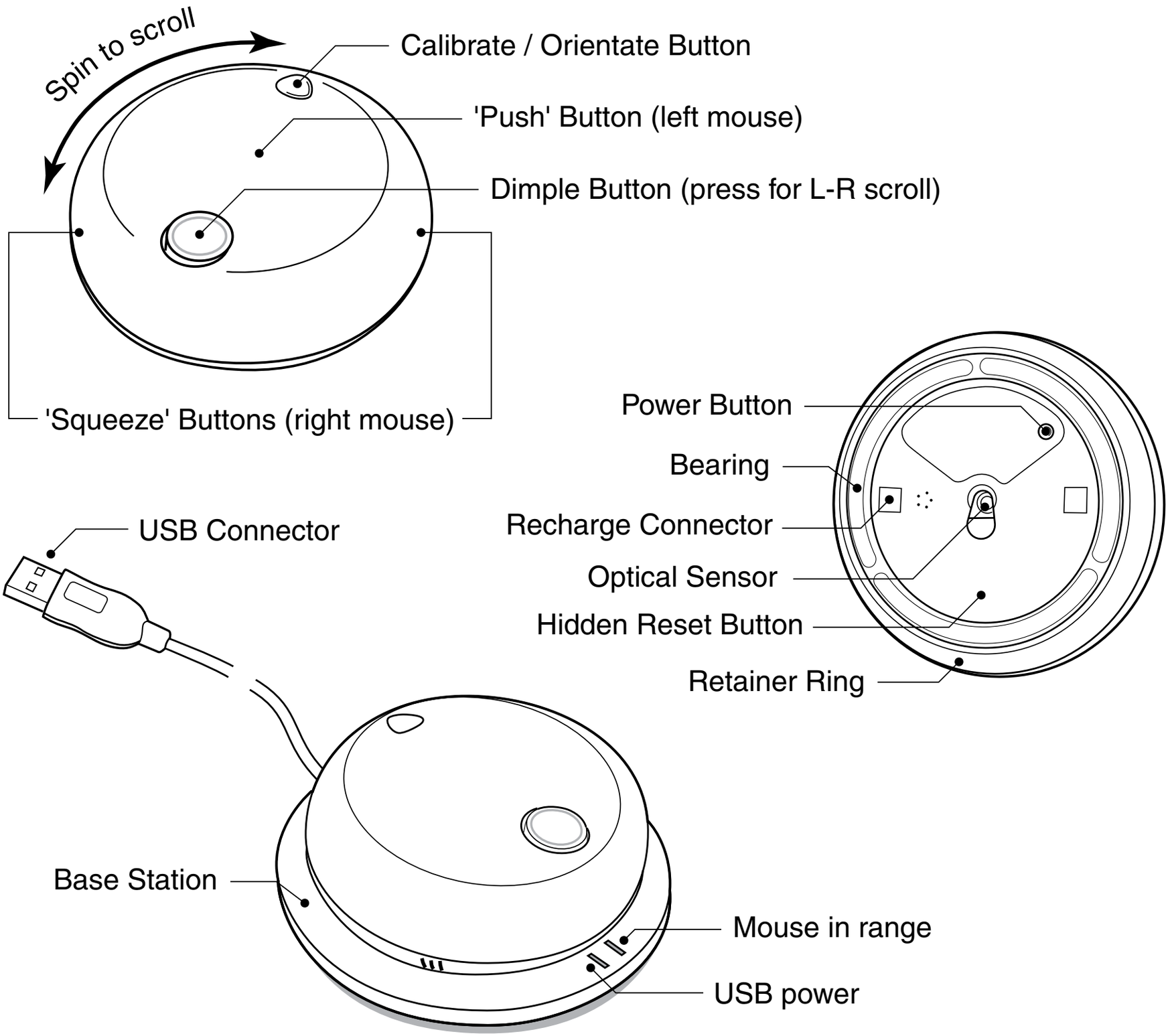
1. Recharge the Orbita Mouse
2. Perform the Wireless Connect
3. Calibrate the Orbita's inbuilt compass
4. Orientate the mouse to your workspace

Then, you are ready to roll!

For more information please contact:

www.cyber-e-sport.com

# Introduction



# Recharge

The Orbita Mouse features an inbuilt rechargeable battery.

The mouse can be recharged by placing it on the Base Station. You will note that it will only fit properly at the correct angle.

The Orbita Mouse will play a tone when it begins charging, and the blue light in the Dimple Button will glow while it is charging.

When the battery is full (approximately 3 hours) the mouse will play another tone and the Dimple Button will stop glowing.

Because the Orbita Mouse uses a high quality Lithium Ion battery, it is not necessary to run it down between charges. The battery can be 'topped up' at any time.

For best results, please connect the Base Station directly to a USB port on your computer, or to a powered USB Hub or USB power supply with at least 500mA capacity. USB extension cables and unpowered hubs may impair the recharging performance of your Orbita Mouse.

The battery in the Orbita is not designed to be user replaceable, but is rated for five years of typical service*. If the battery becomes ineffective during the servicable life of your Orbita, please contact your service representative.

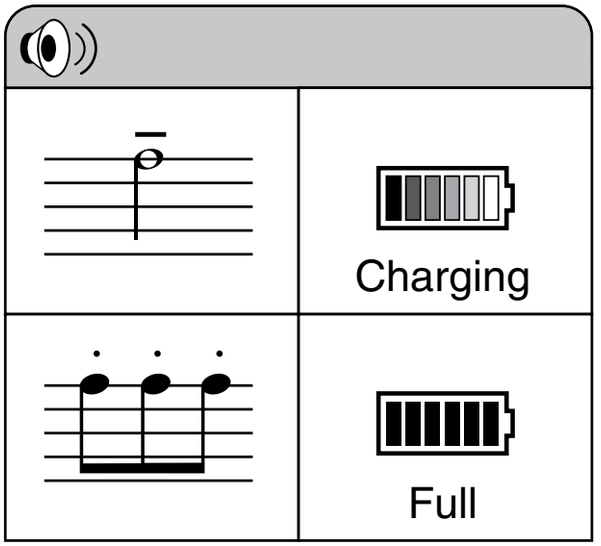
**Warning:** Do not allow any metal objects to touch the recharge connectors on the Orbita Mouse or Base Station!

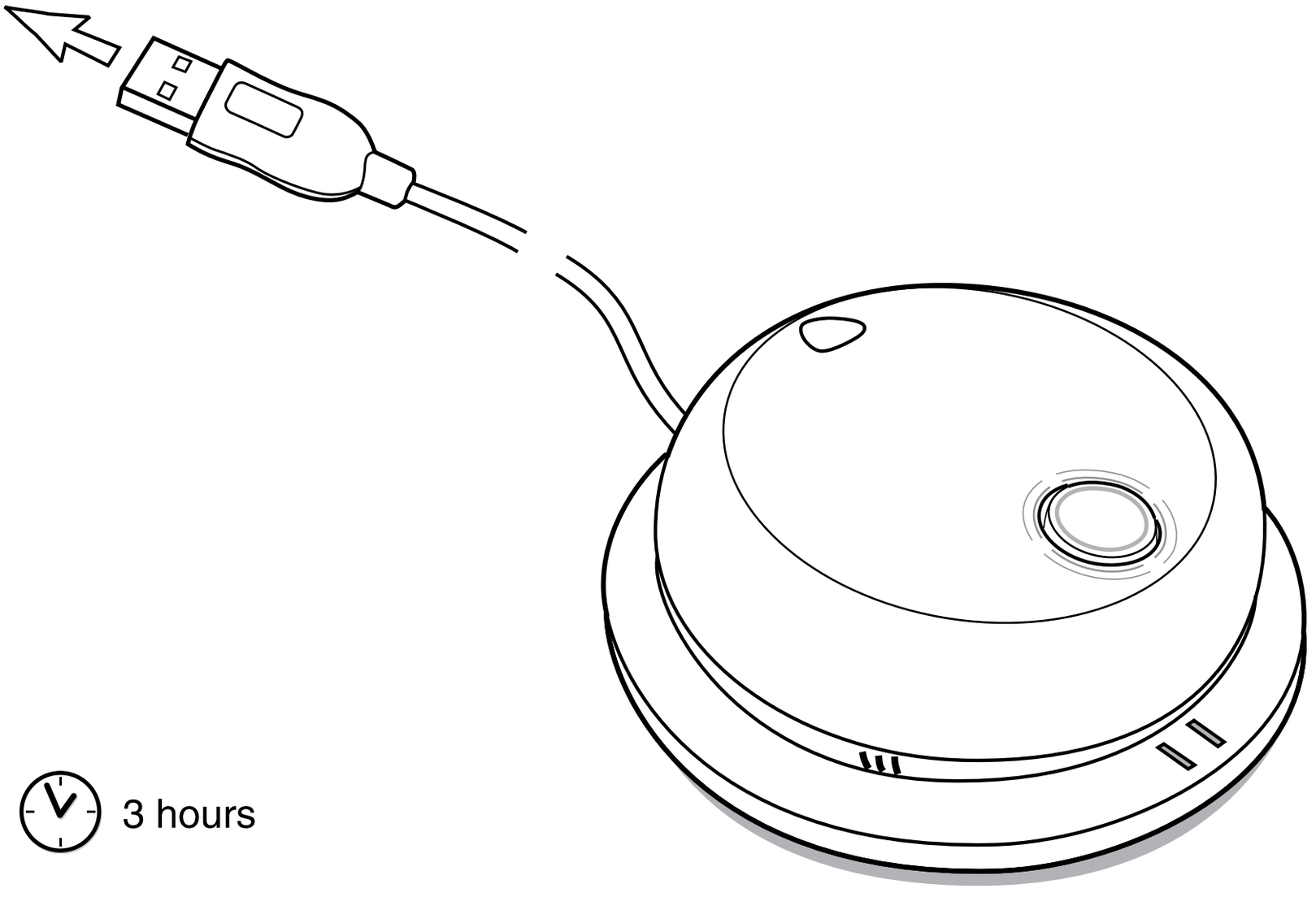
* Please note that battery life depends on usage and is not covered by any special warranty.

# Recharge

Recharge the battery before first use.

1. Connect USB plug to PC
   or USB power supply
2. Put mouse on base
3. Tone is played when the battery is full



3 hours

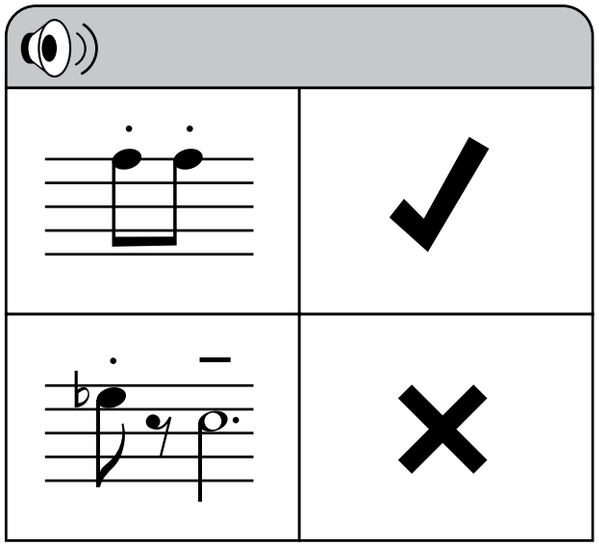
# Wireless Connect

Your Orbita Mouse is ready to communicate with its Base Station as soon as you take it out of its box.

If, however, there are other Orbitas within wireless range of yours (about 10 meters), you can uniquely connect your Orbita to its Base Station to avoid interference.

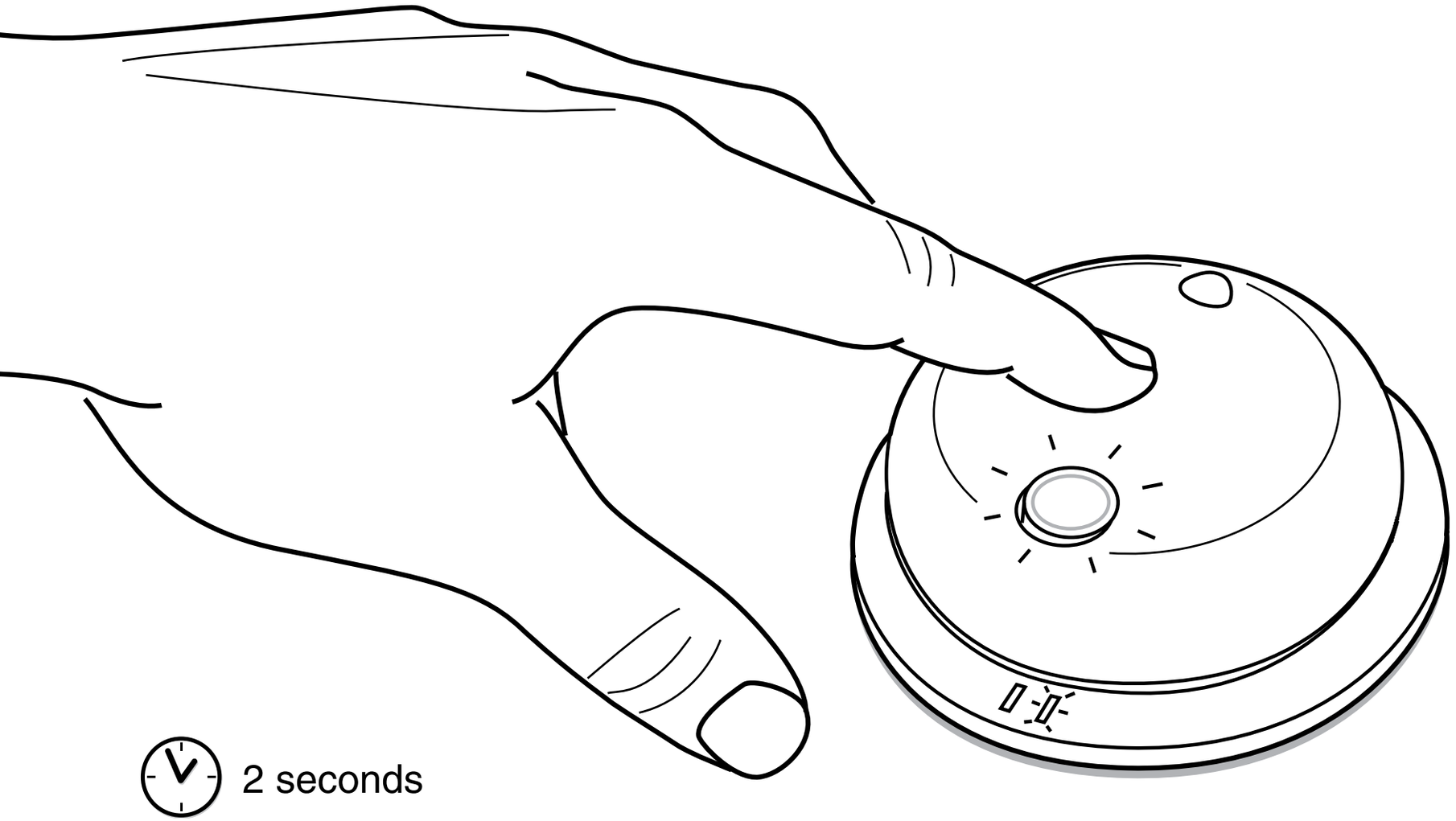
This will also assist if you are experiencing interference from other wireless devices which use the 2.4Ghz band.

# Wireless Connect



The Orbita Mouse can be uniquely connected to the Base Station.

1. Put mouse on Base Station
2. Press & hold ‘Push’ Button for 2 seconds



# Calibrate

Your Orbita Mouse contains a sophisticated electronic compass to enable it to track rotation and direction.

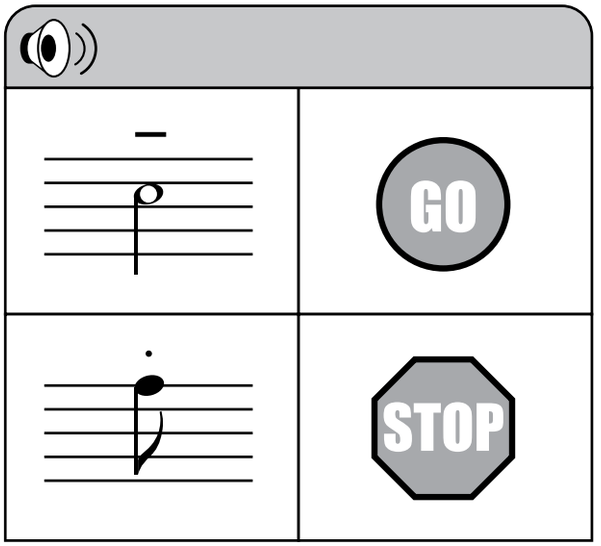
The compass senses the Earth's magnetic field, which varies between difference locations. So, it is necessary to calibrate the Orbita Mouse to your particular location.

Once you have calibrated the mouse, it will remember its calibration and should not need to be calibrated again unless you move it to a new location.

For best results:

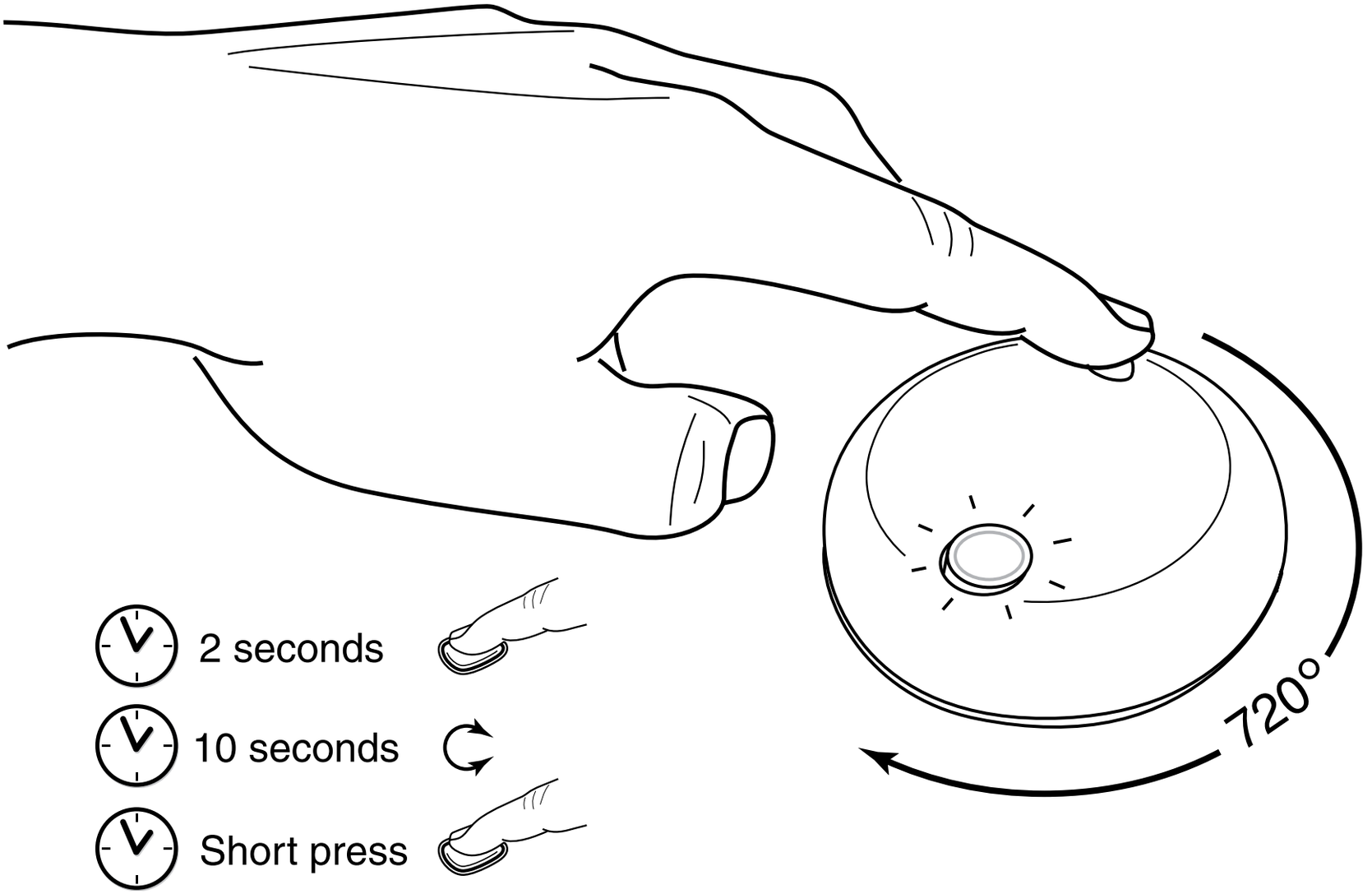
- Calibrate the Orbita Mouse in the position you will use it, for example on your mouse pad.
- Keep the mouse flat on the desk during calibration.
- Rotate the mouse through two full revolutions, over a time period of about 10 seconds.
- Please also see the warning about magnetic interference later in this manual.

# Calibrate




The compass must be calibrated to your location of use.

1. Press and hold Calibrate / Orientate Button for 2 seconds
2. Rotate mouse 720° in 10 seconds
3. Press Calibrate / Orientate Button



# Orientate

Unlike a normal mouse, your Orbita Mouse keeps track of its own direction using its inbuilt compass.

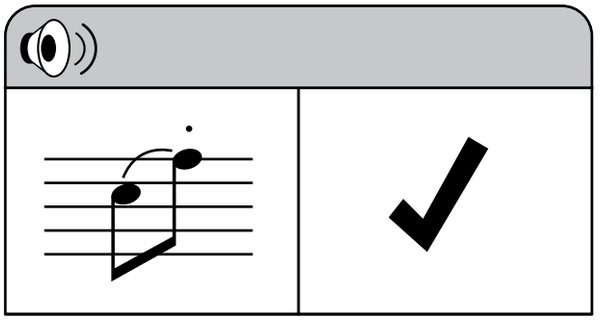
So, you can rotate the mouse to any angle as you use it, and it will still know which way is up.

But first, you need to tell your Orbita Mouse which way ‘Up’ is for your workspace. This is the direction you need to move the mouse to make your on-screen pointer move up towards the top of your screen.

This is done by simply pointing the arrow-shaped Calibrate / Orientate Button to your preferred “Up” direction and pressing it. A rising tone confirms that your orientation has been set.

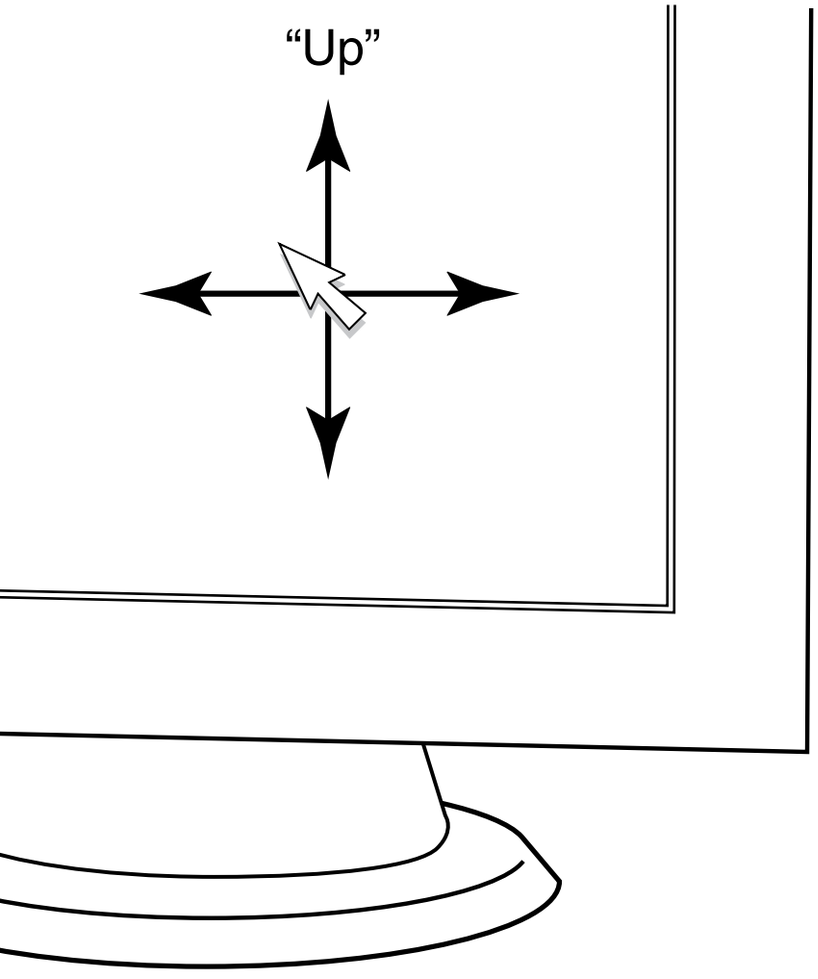
You might like to experiment with a few orientation angles to find the most comfortable angle for you. A suggestion is to align the mouse with the direction in which your arm naturally lies when you are holding the mouse.

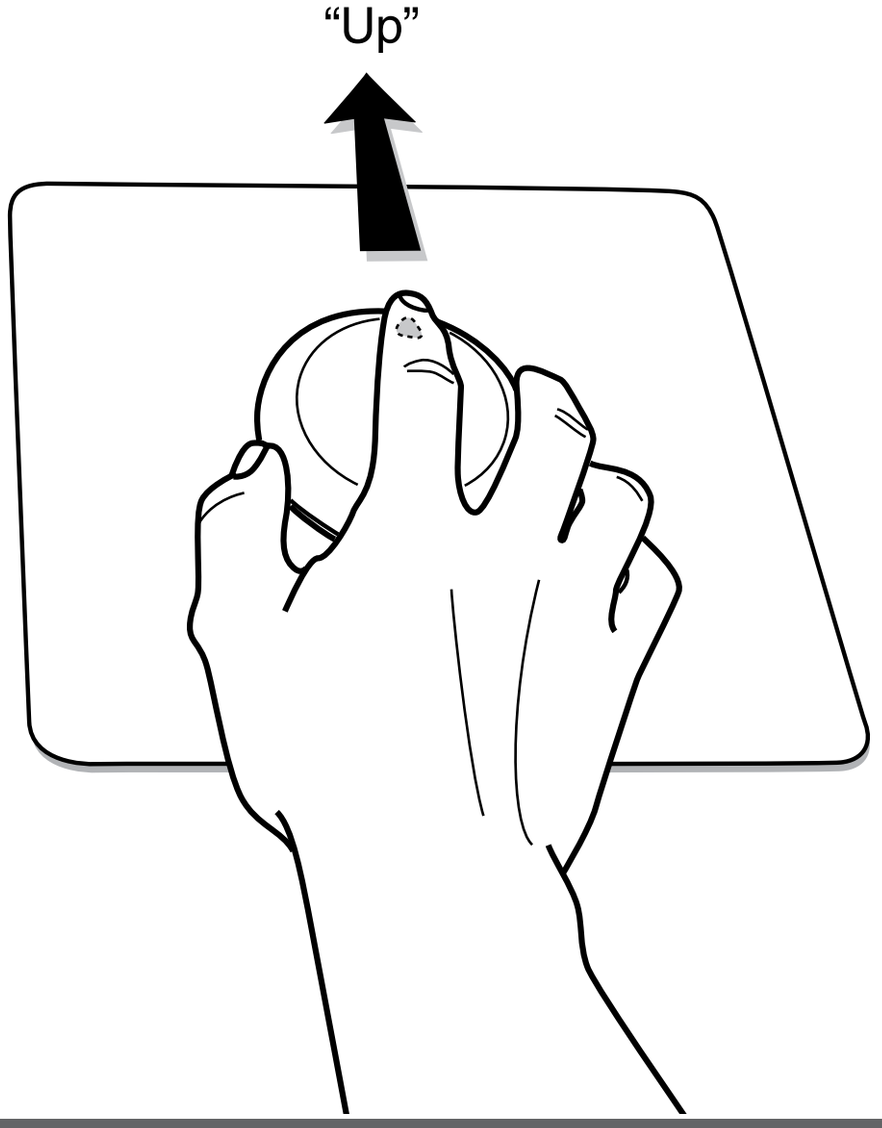
# Orientate

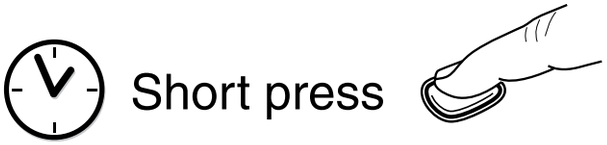


The “Up” direction for the mouse pointer must be set for your workspace.

1. Point mouse to “Up” direction
2. Press Calibrate / Orientate Button



# Power

Your Orbita Mouse is optimised for battery life with inbuilt power management features.

The mouse will automatically go to sleep after 5 minutes of inactivity. Simply press any button to wake it up again.

If you are travelling with the mouse and you want to make sure it doesn't switch on, switch it off using the Power Button on the bottom. Once the Orbita is switched off, and can only be switched on by pressing the Power Button again.

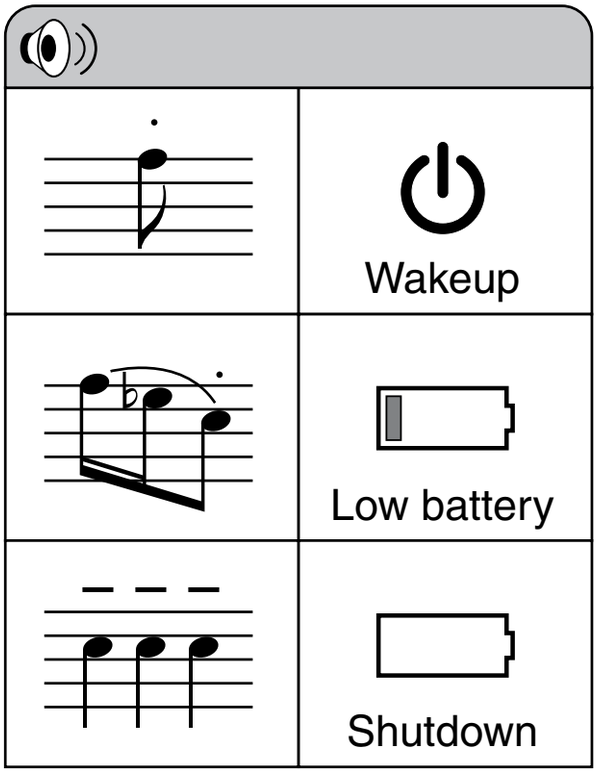
When the battery is low (about 30 minutes operation remaining) it will periodically play a low battery warning tone.

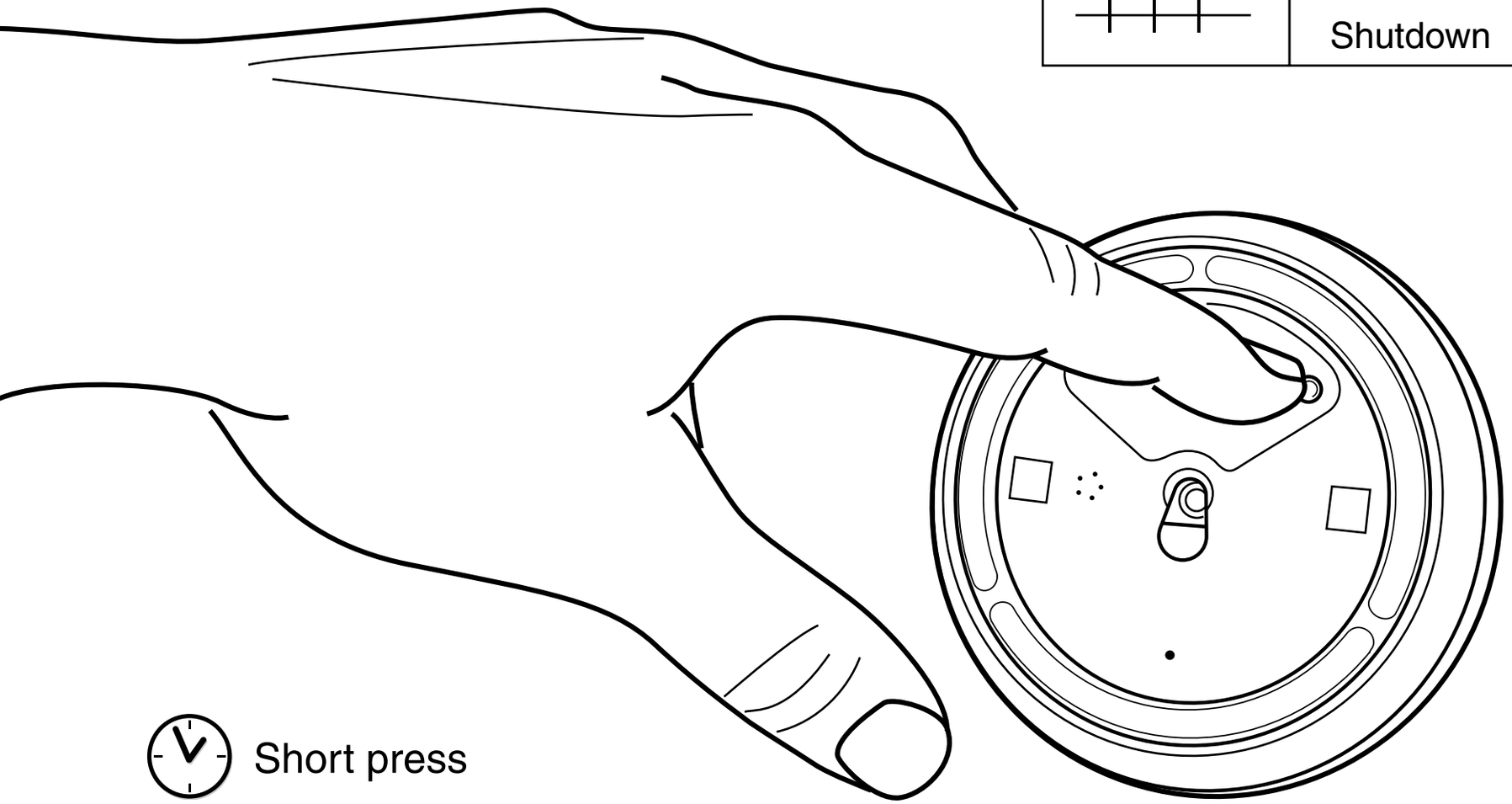
When the battery reaches critical level, the Orbita will play a shutdown tone and enter shutdown mode. From this mode, the Orbita can only be woken up by placing it on recharge

# Power

The mouse can be switched off for transporting.

1. Press the Power Button to switch on or off
2. Warning tones for low battery
3. The mouse will enter shutdown when the battery is empty



Short press

# Reset

While we make the best effort to make your Orbita Mouse reliable, like any technology it might not be infallible!

For this reason we have included a hidden Reset Button in case things go awry. This button can be operated with a straightened paperclip or similar.

Inidications that your Orbita needs to be reset include:

- The mouse will not switch on or off using the Power Button
- The Orientate / Calibrate button stops responding
- The mouse will not enter recharge mode

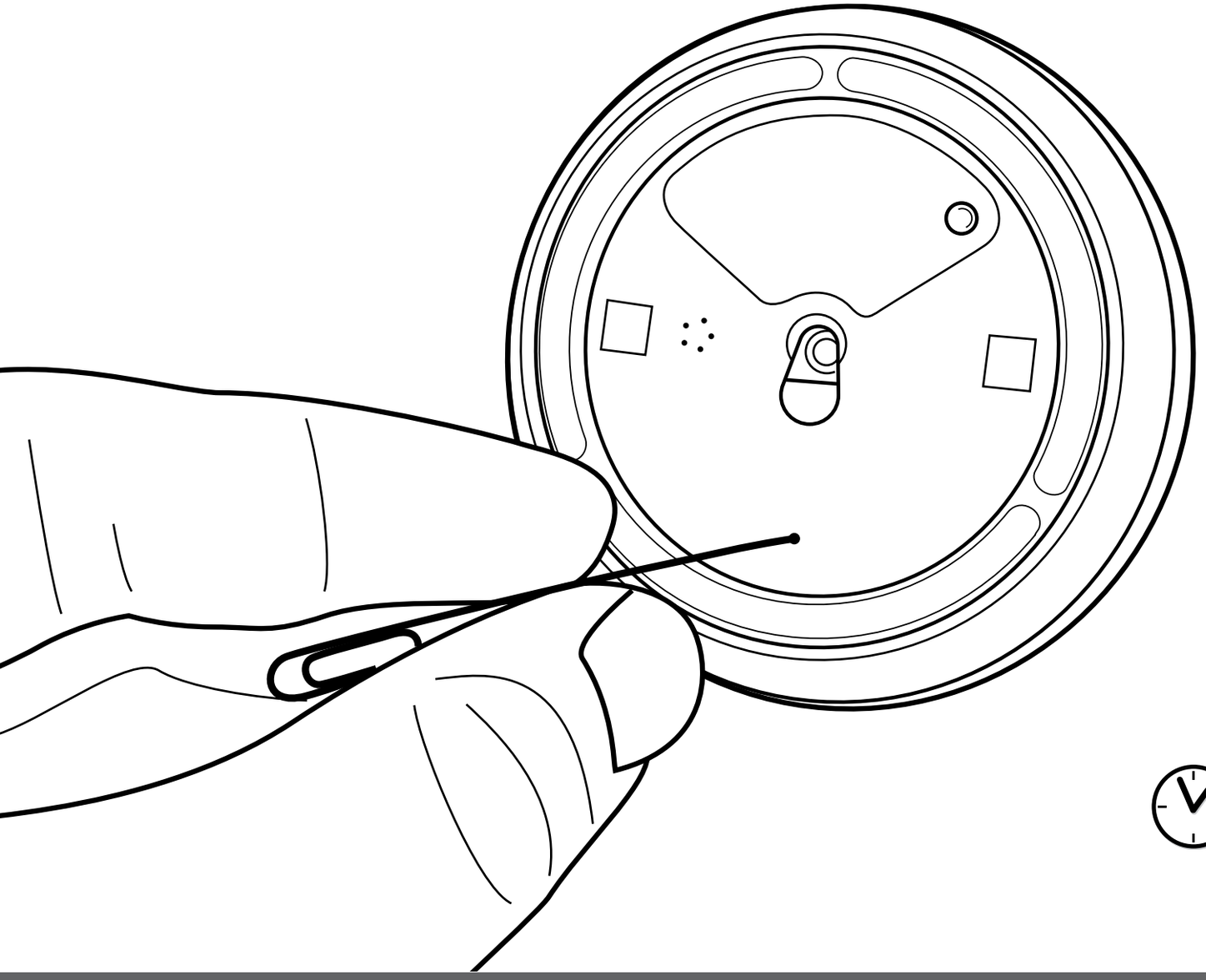
Please note that resetting the Orbita Mouse will not effect your calibration, orientation or wireless connection settings.

Please also refer to the Troubleshooting section of this user manual for dealing with other issues you might experience.

# Reset

If mouse stops responding to the Power Button or malfunctions:

1. Use a paper clip or similar to operate the hidden Reset Button
2. Use Power Button to switch on
3. Resume operation



Short press

# Software

The Orbita Mouse is supplied with software for Windows and Mac OS X for configuring and customising its operation.

The Windows software also includes a driver to enable the horizontal scroll feature. A driver is not required for Mac OS X systems.

**Windows Installation**

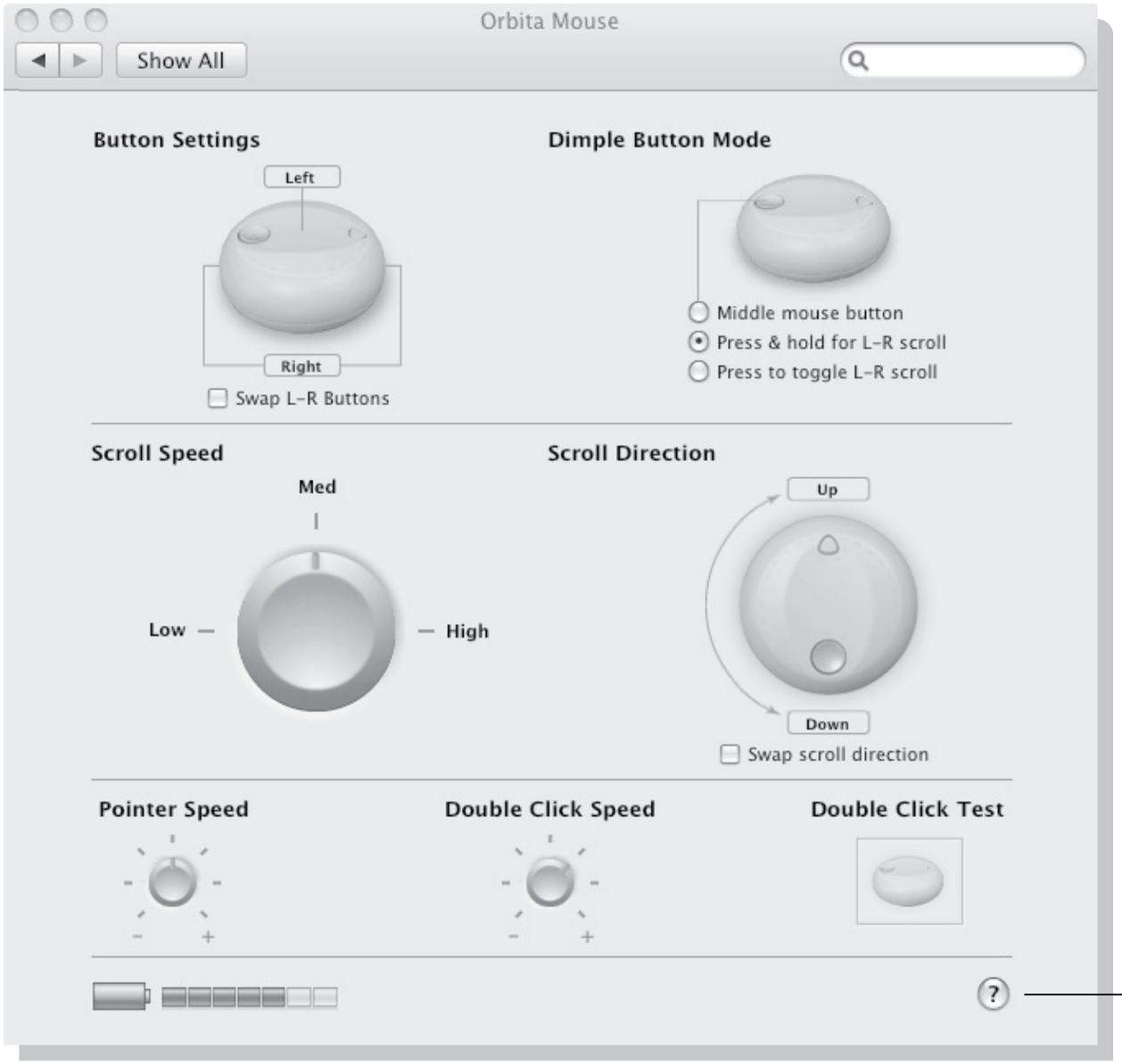
- Insert the CD-ROM
- Double click on ‘Setup.exe’ in the ‘Windows’ folder
- Follow the prompts
- The Orbita icon appears in your system tray when the Base Station is connected to your USB port. Double click the icon to open the configuration panel.
- To uninstall, select ‘Uninstall Orbita Mouse Control Panel’ or ‘Uninstall Horizontal Scroll Driver’ from the Windows Start Menu.

**Mac Installation**

- Insert the CD-ROM
- Double click on ‘OrbitaPrefsPane.dmg’ in the ‘Mac’ folder
- Follow the prompts
- The Orbita Preferences Pane is accessible through your System Preferences in the ‘Other’ section. Double click the icon to open the preferences pane.
- To uninstall, right click on the Preferences Pane icon and select ‘Remove’

# Software

Please click on the Help icon for more detailed information about software operation and features.




OS X Version shown

# Maintenance

Because your Orbita Mouse has some moving parts, over time it may collect dust and dirt which can effect its smooth operation.

Luckily, we have designed the Orbita for easy maintenance of the bearing system. Also, the silicone shell can be easily removed for cleaning should it become dirty from use.

Please take care and follow these guidelines:

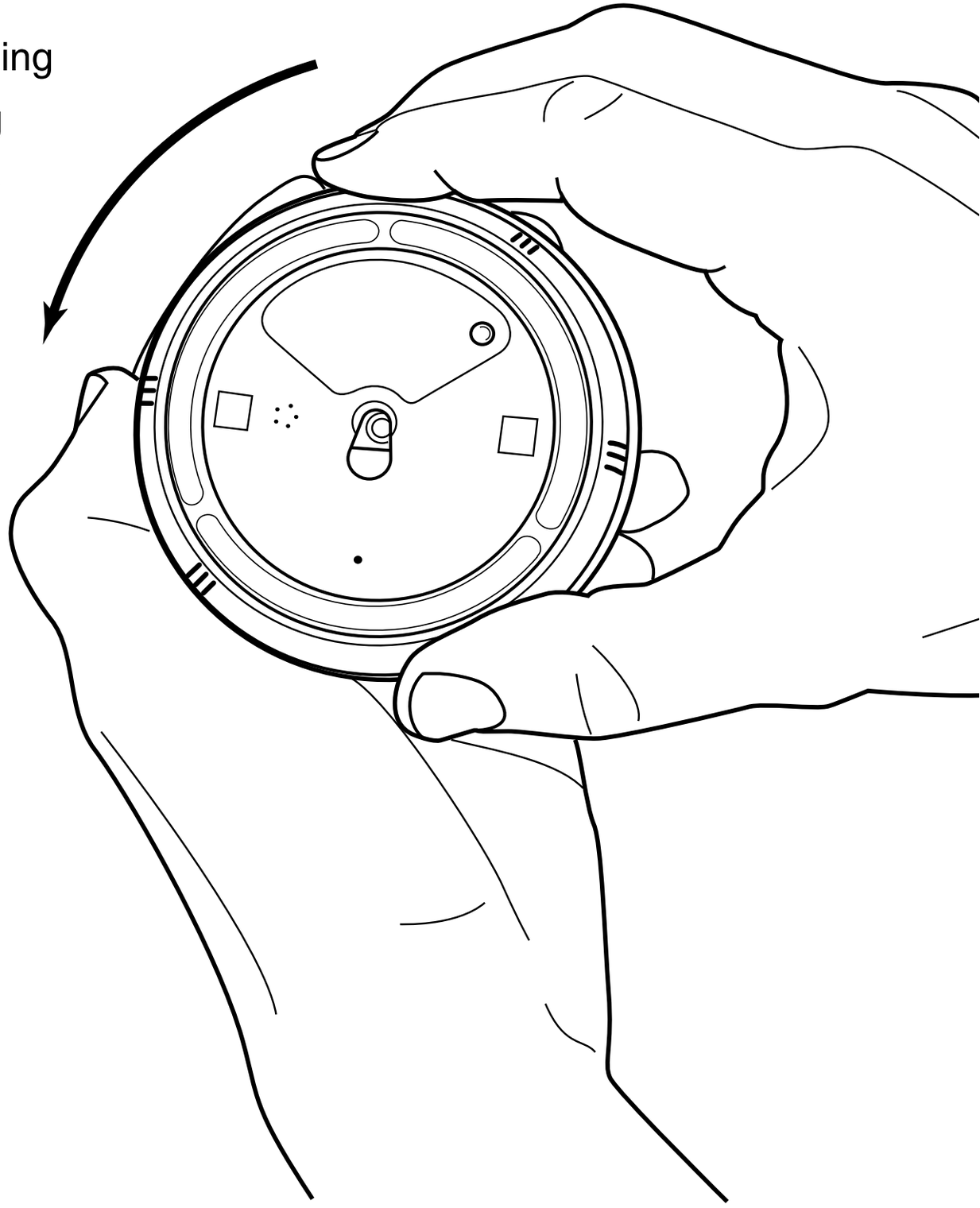
- Only use a dry cloth, or soap and water to clean the bearing parts and silicone shell of your Orbita.
- Make sure the parts are completely dry before refitting them to your Orbita.
- Do not use solvents on any parts of your Orbita.
- The bearing is self-lubricating. Do not apply oil or other lubricants to any part of your Orbita Mouse as it can cause damage.
- Do not attempt to disassemble the main body of your Orbita Mouse and do not to allow any water or other liquid to enter it.
- The bearing surface within the main body can be cleaned with a dry cloth only.

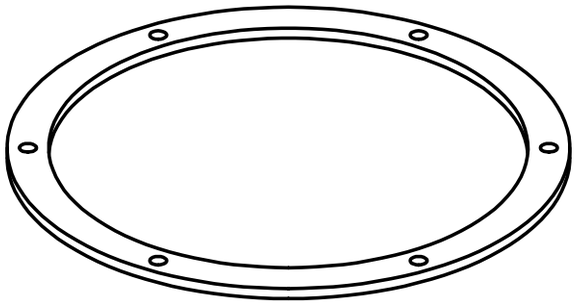
# Maintenance

The bearing and silicone shell can be removed for cleaning.

1. Remove Retainer Ring
2. Wash & dry bearing

Warning: do not wet the mouse body!





6 months

# Maintenance

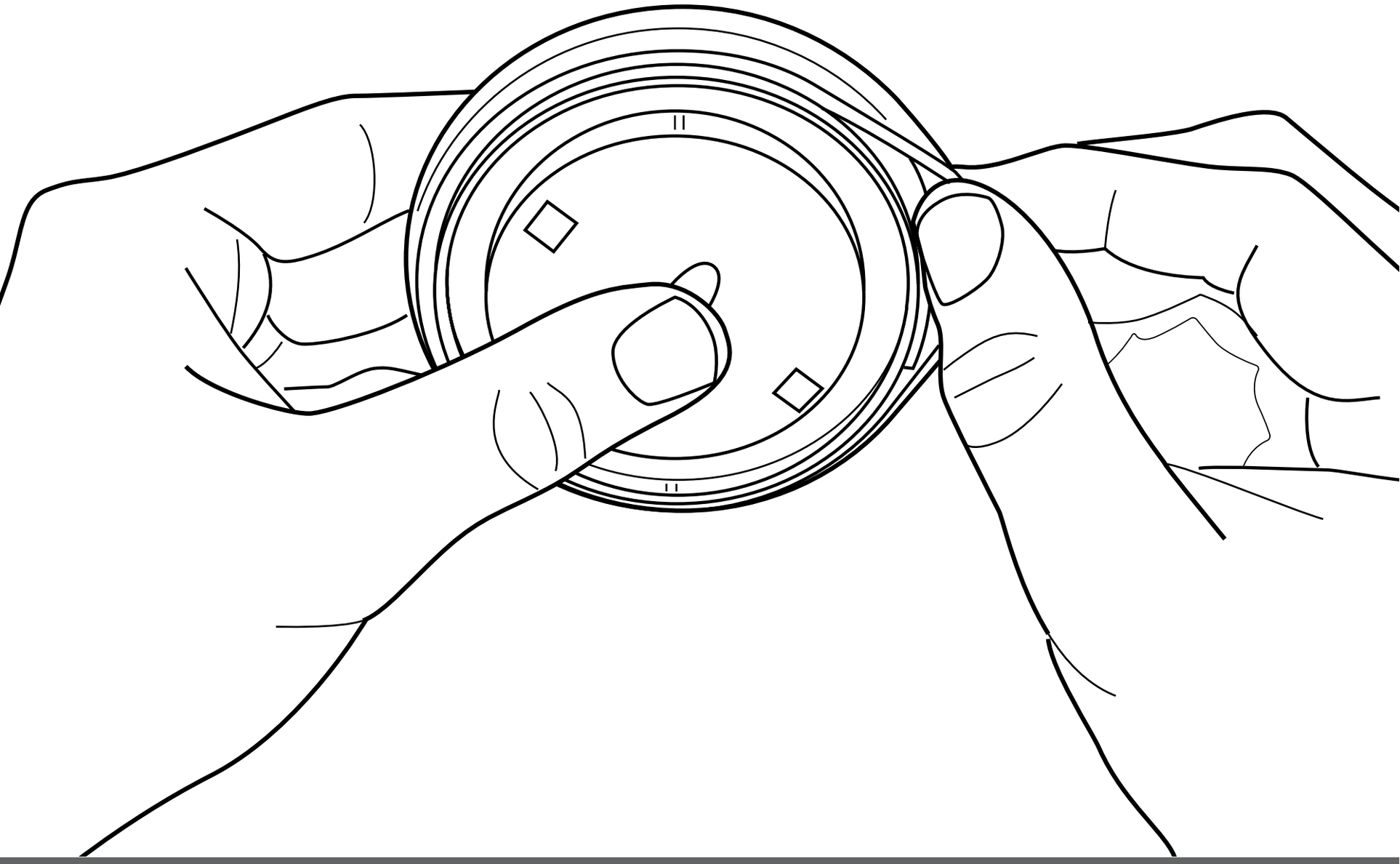
Once the Retainer Ring has been removed, if desired you can peel off the silicone shell for washing.

Some tips for reassembly:

- Make sure the button features in the silicone shell are aligned with those in the main body when replacing it.
- Make sure the rim of the silicone shell is properly seated, all the way around, after replacing it. It is a little like a tire on a wheel rim.
- Only attempt to replace the Retainer Ring with the silicone shell and bearing parts properly in place.
- When replacing the Retainer Ring, make sure it is flat, then turn it clockwise until it clicks into place.
- Test the bearing and button operation after reassembly.
- If any of the ‘squeeze’ buttons sticks after reassembly, try smoothing the silicone shell so it has even tightness all around.

# Maintenance

3. Peel off silicone shell
4. Wash & dry shell
5. Re-assemble in the opposite order



# Troubleshooting

**Mouse won’t respond**

- Recharge the battery
- Check that the mouse is switched on (optical sensor is lit)
- If this fails, operate the hidden Reset Button
- Unplug & reconnect the base station
- Ensure the mouse is not in calibrate mode (Dimple Button flashes)
- Perform the Wireless connect

**Erratic pointer movement**

- Recalibrate the compass
- Orientate the mouse
- Check wireless reception
- Check for magnetic objects nearby

**Jumping while scrolling**

- Recalibrate the compass
- Check for magnetic objects nearby

**Poor wireless reception**

- Move the base station closer to the mouse
- Point the front of the base station towards the mouse
- Place the base station in a higher location
- Check for interference from other 2.4Ghz systems

# Troubleshooting

**Wireless connect fails**

- Remove the mouse from the base station
- Unplug then reconnect the USB connector
- Make sure the mouse enters charge mode or plays the battery full tone when placed on the base station
- Try again

**Battery charging fails**

- Make sure the mouse is correctly aligned and seated on the base station
- Make sure the base station is connected directly to a host computer, a powered USB hub or a USB power supply which is capable of supplying 500mA
- If the charge cycle continually restarts, it is probably due to low USB voltage. Ensure the Base Station is not connected through a USB extension cable or unpowered hub

**Squeeze buttons stick**

- Ensure the silicone shell is correctly fitted
- Smooth the silicone shell so it has even tightness all around

**Bearing sticks**

- Ensure the bearing parts and Retainer Ring are correctly fitted
- Remove and wash the bearing components

# Specifications

**Buttons**

- Push and Squeeze buttons (left mouse / right mouse)
- Dimple button (scroll mode or middle mouse)
- Calibrate / Orientate button
- Power button
- Hidden reset button

Total: 6 buttons

**Mouse Sensor**

| | |
|---|---|
| Type | Wireless optimized LED optical sensor |
| Resolution | 800CPI |

**Rotation Sensor**

| | |
|---|---|
| Type | 2-axis (X-Y) electronic compass |
| Resolution | 256 counts per revolution (CPR) |
| Calibration | Semi-automatic |
| Scroll resolution | 32 / 64 / 128 CPR (normal L / M / H)<br>128 / 256 / 512* CPR (smooth scroll L / M / H)<br>* Interpolated |

# Specifications

**Wireless**

| | |
|---|---|
| Type | 2.4~2.5Ghz ISM band<br>frequency hopping 2-way transceiver |
| Unique IDs | 255 (randomly allocated) |
| Range | 1m (optimal)<br>10m (maximum) |

**Battery**

| | |
|---|---|
| Type | In-built lithium polymer rechargeable |
| Charge time | Approximately 3 hours |
| Battery life | Approximately 50 hours average use<br>Approximately 3 months in sleep / off mode |
| Total life | 500 charges |

**USB Interface**

| | |
|---|---|
| Type | USB 2.0 Full Speed |
| Report rate | 125Hz average; 1000Hz maximum |
| Cable length | 540mm |
| Power consumption | 50mA (normal operation)<br>500mA (recharge mode)<br>2.5mA (suspend mode) |

# Contact & Legal

**Web** www.cyber-e-sport.com

**Email** sales@cyber-e-sport.com

Cyber Sport Pty Ltd
PO Box 246
Rydalmere NSW 2116
Australia

Designed and developed in Australia

Made in China



USA Patent 7,154,475