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ProtoArc EM02

ProtoArc EM02 Trackball Mouse User Manual

INTRODUCTION

Thank you for choosing the ProtoArc EM02 Trackball Mouse. This manual provides detailed instructions for setting up, operating, and maintaining your device to ensure a comfortable and efficient user experience. The EM02 features an ergonomic design with adjustable tilt, multi-device connectivity, silent click buttons, and a high-precision trackball for smooth cursor control.

PACKAGE CONTENTS

- ProtoArc EM02 Trackball Mouse
- USB Receiver
- USB-C Charging Cable
- User Manual

PRODUCT FEATURES

- **Ergonomic Design with Adjustable Angle:** The mouse features a 45° tilt and a 15° adjustable base, allowing for a natural wrist posture to reduce strain during prolonged use. This design is ideal for medium to large hands (palm length 17.5cm to 20cm).
- **Multi-Device Connectivity:** Connects to up to three devices simultaneously via Bluetooth (2 devices) and 2.4GHz USB receiver (1 device). Easily switch between connected devices with a single button.
- **Silent Click Buttons:** Left and right buttons utilize silent switches, reducing click noise by over 90%. Ideal for quiet environments like libraries, cafes, or offices. (Note: Scroll wheel and forward/back buttons are not silent.)
- **Long-lasting Battery & USB-C Charging:** Equipped with a 500mAh battery, providing approximately 150 hours of continuous use on a single full charge. Features a battery level indicator for convenience.
- **Smooth Trackball & 5-Stage DPI:** A 34mm diameter trackball combined with a high-precision sensor ensures smooth and accurate cursor tracking. DPI can be adjusted through 5 levels (200, 400, 800, 1200, 1600) to suit various tasks.
- **Convenient Side Buttons:** Includes 'Forward' and 'Back' buttons for enhanced browsing and work efficiency. (Note: These buttons may not function on macOS.)

SETUP

1. Power On/Off

Locate the power switch on the underside of the mouse. Slide it to the 'ON' position to power on the device, and to 'OFF' to power it off.

2. Connecting via 2.4GHz USB Receiver

1. Remove the USB receiver from its storage slot on the bottom of the mouse.
2. Insert the USB receiver into an available USB port on your computer.
3. The mouse will automatically connect. The 2.4GHz indicator light will illuminate.

3. Connecting via Bluetooth

1. Press the mode switch button on the top of the mouse to select either Bluetooth 1 (BT1) or Bluetooth 2 (BT2). The corresponding indicator light will flash.
2. On your device (PC, tablet, smartphone), go to Bluetooth settings and search for new devices.
3. Select "ProtoArc EM02" from the list of available devices to pair.
4. Once paired, the Bluetooth indicator light will stop flashing and remain solid.

OPERATING INSTRUCTIONS

1. Basic Button Functions

- **Left Button:** Primary click function.
- **Right Button:** Secondary click function (context menu).
- **Scroll Wheel:** Scroll up/down pages.
- **Forward/Back Buttons:** Navigate forward/backward in web browsers or applications. (Functionality may vary by OS/application, not supported on macOS).

2. DPI Adjustment

Press the DPI change button located near the scroll wheel to cycle through the 5 DPI settings (200, 400, 800, 1200, 1600). Select the sensitivity that best suits your task.

5段階DPI切替可能

作業内容に合わせて最適なカーソル速度を選べる



Image: DPI adjustment button and available sensitivity settings.

3. Switching Between Devices

To switch between connected devices (Bluetooth 1, Bluetooth 2, or 2.4GHz), simply press the mode switch button on the top of the mouse. The corresponding indicator light will show which device is currently active.



Image: Multi-device connectivity and mode switching.

CHARGING AND BATTERY

The ProtoArc EM02 Trackball Mouse features a built-in rechargeable 500mAh battery. Use the provided USB-C cable to charge the mouse. A full charge takes approximately 2-3 hours and provides up to 150 hours of continuous use or 90 days of standby time. The battery indicator lights will show the charging status and remaining battery level.

USB-C急速充電

一度のフル充電で、約150時間の連続使用が可能



Image: USB-C charging port and battery life details.

MAINTENANCE

Regular cleaning of the trackball is essential for optimal performance, as dust and debris can accumulate. We recommend cleaning 1-2 times per week.

Cleaning the Trackball

1. Turn off the mouse power switch.
2. Gently push the trackball out from the small hole on the underside of the mouse using a thin stick (e.g., a

cotton swab). Alternatively, you can hold the mouse upside down and use your index finger and thumb to grip both sides of the ball, then pull it out from the groove.

3. Use a cleaning cloth to wipe away any dust or grime from the trackball and the inside of the trackball housing, especially around the contact points and sensor. For stubborn dirt, lightly dampen a cotton swab with a small amount of water. Ensure no water enters the mouse interior.
4. Wipe the removed trackball clean with a cleaning cloth.
5. Place the cleaned trackball back into its original position.

滑らかな操作感

本体を動かさず親指でボールを転がすだけで
快適なカーソル操作を実現



より速い
反応



より少ない
動き



より正確な
操作

Image: Trackball removal and cleaning process.

Important Notes for Cleaning:

- Do not use alcohol or shampoo, as these can damage the ball's surface. If using a neutral detergent, rinse thoroughly with water and dry completely in a well-ventilated area.
- If the trackball movement is still poor after cleaning, apply a small amount of hand cream to a soft cloth and polish the entire ball evenly to distribute oil. Then, wipe off any excess oil.
- Handle with care to avoid damaging the optical sensor during cleaning.

TROUBLESHOOTING

1. Mouse not responding:

- Ensure the mouse is powered on.
- Check battery level and charge if necessary.
- For 2.4GHz connection, ensure the USB receiver is securely plugged into the computer.
- For Bluetooth connection, ensure Bluetooth is enabled on your device and the mouse is paired. Try re-pairing if necessary.
- Switch to a different connection mode (2.4GHz or Bluetooth) to see if the issue persists.

2. Cursor movement is erratic or sluggish:

- Clean the trackball and the sensor area as described in the Maintenance section.
- Adjust the DPI setting to a higher or lower value to see if it improves responsiveness.
- Ensure there are no obstructions between the mouse and the receiver (for 2.4GHz) or the Bluetooth device.

3. Forward/Back buttons not working on macOS:

- The forward/back buttons are not supported on macOS. This is a system limitation.

SPECIFICATIONS

Feature	Specification
Model Number	EM02
Connectivity	Bluetooth, 2.4GHz USB
DPI Levels	200, 400, 800, 1200, 1600
Battery Capacity	500mAh
Continuous Use Time	Approx. 150 hours
Charging Time	Approx. 2-3 hours
Standby Time	Approx. 90 days
Charging Port	USB-C
Adjustable Angle	0° and 15°
Compatible OS	Windows XP/7/8/10+, macOS X 10.12+, Android 5.0+, iOS 13+
Dimensions	14.4 x 12.2 x 8.9 cm
Weight	230 g

WARRANTY AND SUPPORT

The ProtoArc EM02 Trackball Mouse comes with an 18-month manufacturer's warranty from the date of purchase. In the unlikely event of a defective or damaged product, please contact customer support for an exchange or refund.

Note: The included instruction manual in the package is multilingual, with the Japanese explanation located at the end of the booklet. Please refer to that section when using the product.

Customer Support:

- **Email:** support-jp@protoarc.com
- **Amazon:** Go to the seller page, click 'Ask a question', and send your inquiry.

ADDITIONAL INFORMATION

ProtoArc is dedicated to creating healthy and comfortable workspaces, aiming to provide professional service and support whether you are in the office, at home, or on a business trip. Our product design emphasizes comfort, health, convenience, and efficiency.