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## ProtoArc EM11 NL

# ProtoArc EM11 NL Ergonomic Vertical Mouse User Manual

MODEL: EM11 NL | BRAND: PROTOARC

## 1. Product Overview

The ProtoArc EM11 NL is an ergonomic vertical mouse designed to provide a more natural and comfortable hand position, reducing wrist strain during extended computer use. It offers versatile connectivity options, including Bluetooth 5.0 and 2.4GHz USB-A, allowing connection to up to three devices simultaneously. Featuring a built-in rechargeable battery and adjustable DPI settings, this mouse is engineered for productivity and user well-being.

## 2. What's in the Box

- 1 x ProtoArc Rechargeable Bluetooth Ergonomic Mouse
- 1 x 2.4G USB-A Receiver
- 1 x Type-C Charging Cable (for charging only)
- 1 x User Manual



Figure 2.1: Package Contents. The image displays the ProtoArc EM11 NL mouse, a USB-A receiver, and a Type-C charging cable, along with a user manual, neatly arranged as they would appear in the product packaging.

## 3. Product Features

### 3.1 Ergonomic Vertical Design

The EM11 NL mouse features a unique ergonomic vertical design that positions your hand in a natural handshake posture. This design helps to keep your wrist straight, reducing discomfort and strain often associated with traditional horizontal mice. It promotes a relaxed forearm and wrist position, which can improve productivity and minimize the risk of repetitive strain injuries.

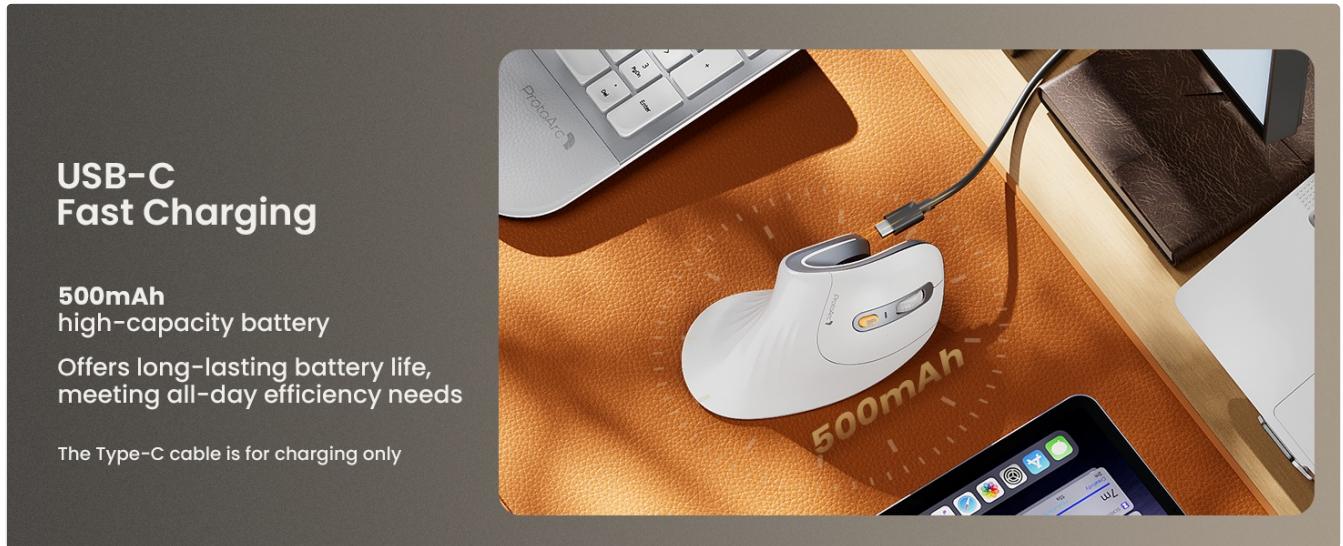


Figure 3.1: Ergonomic Design Comparison. This image shows the ProtoArc EM11 NL mouse in a natural handshake grip, contrasting it with a traditional mouse to highlight the ergonomic benefits of reduced forearm rotation and neutral wrist position.

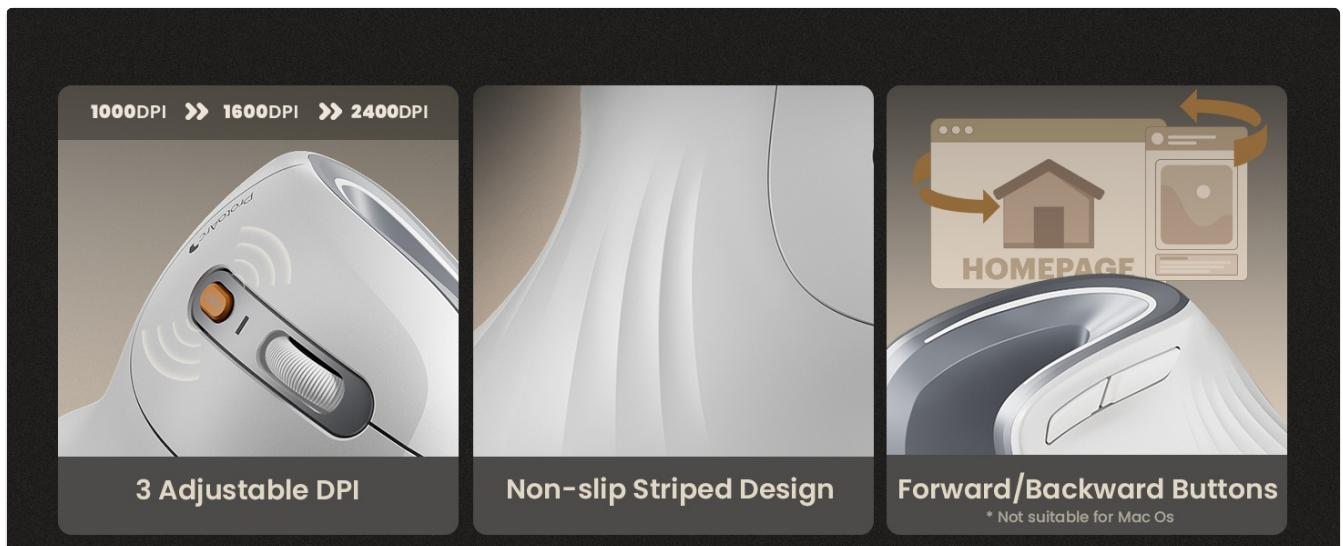


Figure 3.2: 58° Ergonomic Comfort Angle. The image demonstrates the mouse being used with a hand positioned at a 58-degree angle, emphasizing how this design reduces muscle fatigue by 10% and wrist overuse fatigue by 90%.

### 3.2 Multi-Device Connectivity

The mouse supports dual Bluetooth 5.0 and 2.4G USB-A connectivity modes, enabling simultaneous connection to up to three different devices. This allows for seamless switching between a computer, PC, or laptop, enhancing workflow efficiency.



Figure 3.3: Multi-Device Connection. This image illustrates the mouse's capability to connect to multiple devices (laptop, tablet, desktop) using 2.4G, Bluetooth 1, and Bluetooth 2, with a note that a USB-C receiver is not included.

### 3.3 Rechargeable Battery

Equipped with a built-in 500mAh Li-Ion battery, the EM11 NL mouse can be conveniently recharged using the included Type-C cable. A single charge provides long-lasting battery life, supporting months of use on standby.



Figure 3.4: Type-C Rechargeable. The image details the mouse's Type-C charging capability, indicating a 90-day standby time and a 4-5 hour charging time for a full charge.

### 3.4 Adjustable DPI & High Performance

The mouse offers 1000/1600/2400 DPI levels, providing higher sensitivity and precise optical tracking. It includes back and forward buttons for easy navigation, though these are not programmable and not compatible with Mac OS systems.



Figure 3.5: Adjustable DPI and Navigation. This image highlights the mouse's 3 adjustable DPI settings (1000/1600/2400), its non-slip striped design, and the functionality of the forward/backward buttons (with a note about Mac OS incompatibility).

### 3.5 Quiet Clicking

The left and right mouse buttons feature a silent click design, allowing you to focus on your work without disruptive noise. Note that the middle scroll wheel and the back/forward buttons do not have silent clicks.

## 4. Setup and Installation

### 4.1 Connecting via 2.4G USB-A Receiver

1. Locate the 2.4G USB-A receiver stored in the compartment on the bottom of the mouse.
2. Plug the USB-A receiver into an available USB-A port on your computer.
3. Turn on the mouse using the power switch located on the bottom. The mouse should automatically connect to your computer.

### 4.2 Connecting via Bluetooth

1. Turn on the mouse using the power switch on the bottom.
2. Press the 'Switch Button' on the bottom of the mouse to select either Bluetooth 1 (B1) or Bluetooth 2 (B2) mode. The corresponding indicator light will flash.
3. On your computer or device, navigate to Bluetooth settings and search for new devices.
4. Select 'ProtoArc EM11 NL' from the list of available devices to pair.
5. Once paired, the indicator light will stop flashing and remain solid.



Figure 4.1: Mouse Bottom View. This image displays the underside of the mouse, highlighting the power switch, the storage slot for the 2.4G USB-A receiver, and the switch button for selecting between 2.4G, Bluetooth 1, and Bluetooth 2 connectivity modes.

## 5. Operating Instructions

### 5.1 Button Functions

The ProtoArc EM11 NL mouse is equipped with several buttons for intuitive control:

- **Left Button:** Standard left-click function.
- **Right Button:** Standard right-click function.
- **Scroll Wheel:** For vertical scrolling.
- **DPI Button:** Cycles through DPI settings (1000/1600/2400).
- **Forward Button:** Navigates forward in web browsers/applications (not compatible with Mac OS).
- **Backward Button:** Navigates backward in web browsers/applications (not compatible with Mac OS).
- **Switch Button:** Toggles between 2.4G, Bluetooth 1, and Bluetooth 2 connections.
- **Power Switch:** Turns the mouse On/Off.



Figure 5.1: Button Functions. This diagram clearly labels each button on the ProtoArc EM11 NL mouse, including the left/right buttons, scroll wheel, DPI button, forward/backward buttons, power switch, and connection switch, along with their respective indicators.

### 5.2 DPI Adjustment

Press the DPI button (located near the scroll wheel) to cycle through the available sensitivity settings: 1000 DPI, 1600

DPI, and 2400 DPI. Select the setting that best suits your preference for cursor speed and precision.

### 5.3 Switching Between Devices

To switch between connected devices, press the 'Switch Button' on the bottom of the mouse. The indicator light will change to reflect the currently active connection (2.4G, B1, or B2).

## 6. Charging

When the battery is low, the low-battery indicator light on the mouse will illuminate. Connect the included Type-C charging cable to the Type-C port on the front of the mouse and plug the other end into a USB power source (e.g., computer USB port, USB wall adapter). The Type-C cable is for charging only and does not support data transfer.



Figure 6.1: USB-C Fast Charging. This image illustrates the mouse connected to a Type-C charging cable, highlighting its 500mAh high-capacity battery designed for long-lasting performance.

## 7. Hand Size Guide

The ProtoArc EM11 NL mouse is specifically designed for small to medium-sized hands. For optimal comfort and ergonomic benefits, it is recommended for hand lengths under 7.5 inches (19.05 cm). Please measure your hand size before ordering to ensure a better fit.



Figure 7.1: Measure Your Hand. This diagram provides a visual guide on how to measure hand length and offers recommendations for small (<6.9 in), medium (6.9-7.5 in), and large (>7.5 in) hands, indicating the EM11 NL is best suited for small to medium hands.

## 8. Specifications

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Feature	Detail
Product Dimensions	3.54 x 2.76 x 0.04 inches
Item Weight	10.2 ounces
Item Model Number	EM11 NL
Batteries	1 Nonstandard Battery (included)
Connectivity Technology	2.4G USB-A Receiver, Bluetooth
Special Features	Ergonomic Design, Multi-Device, Rechargeable, Vertical Design, Wireless
Movement Detection Technology	Optical
Color	White
Manufacturer	ProtoArc

## 9. Troubleshooting

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If you encounter any issues with your ProtoArc EM11 NL mouse, please try the following steps:

- Connection Issues:** Ensure the mouse is turned on and fully charged. For 2.4G connection, verify the USB-A receiver is securely plugged into your device. For Bluetooth, ensure Bluetooth is enabled on your device and the mouse is in the correct pairing mode (B1 or B2). Try re-pairing the mouse.
- Lagging/Unresponsive:** Check for interference from other wireless devices. Ensure the mouse is within the effective range of your device. Try changing the DPI setting.
- Charging Problems:** Ensure the Type-C cable is properly connected to both the mouse and a working USB power source. Try a different USB port or charging cable.
- Cursor Inaccuracy:** Ensure the optical sensor on the bottom of the mouse is clean and free from obstructions. Use the mouse on a suitable surface.

## 10. Warranty and Support

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For warranty information and technical support, please refer to the official ProtoArc website or contact their customer service directly. Keep your purchase receipt as proof of purchase for any warranty claims.