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ENDGAME GEAR OP1w 4K v2 Wireless Gaming Mouse Instruction Manual

Model: OP1w 4K v2

INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your ENDGAME GEAR OP1w 4K v2 Wireless Gaming Mouse. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.

The ENDGAME GEAR OP1w 4K v2 is a high-performance wireless gaming mouse designed for precision and responsiveness. It features an ultra-high 4000Hz wireless polling rate, a 30,000 CPI optical sensor, and hot-swappable Kailh GX switches, making it suitable for competitive gaming.

PRODUCT OVERVIEW

Key Features

- **Ultra-High Polling Rate:** True 4000Hz wireless polling for ultra-fast response, with support for 2000Hz/1000Hz wireless and 1000Hz wired modes.
- **Pinpoint Sensor Accuracy:** PixArt PAW3950 sensor with up to 30,000 CPI, 750 IPS, 50G, and fine-tuned LOD from 0.7–1.7 mm.
- **Lightning-Fast Clicks:** Pre-sorted Kailh GX switches offer crisp feedback, ultra-low latency, and 80M-click durability.
- **Always Ready to Perform:** No wake-up delay or idle lag. Hybrid wired/wireless with 6 ft Flex Cord 7.0 for stable connection.
- **Claw-Grip Control:** Right-handed shape with flatter sides, extended ledges, and dry grip coating. Weighs approximately 58.5g.
- **Modding-Friendly Design:** Features swappable main button switches.

Visual Guide to Features



Figure 1: Ultra-Fast 4000 Hz Wireless Polling Rate

This image illustrates the mouse's capability for an ultra-fast 4000 Hz wireless polling rate, ensuring minimal latency and precise tracking.



Figure 2: Kailh GX Switches for Instant Clicks

This image highlights the Kailh GX switches, known for their crisp feedback, low latency, and durability, providing instant and reliable clicks.



Figure 3: Custom Optical Sensor

A detailed view of the mouse's underside, focusing on the custom optical sensor that provides up to 30,000 CPI for pinpoint accuracy and fast tracking.



Figure 4: Featherlight Gaming Mouse

This image emphasizes the mouse's lightweight design, contributing to agile and precise control during extended gaming sessions without hand fatigue.



Figure 5: Tailored to Your Play Style

This image represents the mouse's customizable nature, allowing users to easily swap switches and skates to create a personalized setup.

SETUP

1. Charging the Mouse

Before first use, ensure the mouse is fully charged. Connect the supplied USB-C Flex Cord 7.0 cable to the mouse's front port and the other end to an available USB port on your computer. The mouse can be used while charging in wired mode.

2. Wireless Connection (2.4 GHz)

1. Insert the 4K wireless dongle into an available USB port on your computer. For optimal performance, use a USB 2.0 or 3.0 port and place the dongle as close to the mouse as possible, ideally using the included extender cable if necessary.
2. Turn on the mouse using the switch located on its underside.
3. The mouse should automatically connect to the dongle. If not, refer to the troubleshooting section or the ENDGAME GEAR software for pairing instructions.

3. Wired Connection

To use the mouse in wired mode, simply connect the USB-C Flex Cord 7.0 cable directly from the mouse to your computer's USB port. The mouse will automatically switch to wired mode and charge simultaneously.

4. Software Installation

Download the official ENDGAME GEAR software from the ENDGAME GEAR website. This software allows for customization of DPI settings, polling rate, button assignments, and other advanced features. The software does not require an internet connection after initial download and installation.

OPERATING INSTRUCTIONS

DPI Adjustment

The mouse features a PixArt PAW3950 sensor with up to 30,000 CPI. DPI settings can be adjusted via the ENDGAME GEAR software. You can configure multiple DPI stages and switch between them using a dedicated button (if assigned) or through the software interface.

Polling Rate Configuration

The OP1w 4K v2 supports a true 4000Hz wireless polling rate. Lower polling rates (2000Hz, 1000Hz) are also supported wirelessly, and 1000Hz in wired mode. The polling rate can be configured within the ENDGAME GEAR software to match your system's capabilities and preferences.

Button Customization

All five programmable buttons can be remapped using the ENDGAME GEAR software. This includes assigning macros, media controls, or other functions to enhance your workflow or gaming experience.

Hot-Swappable Switches

The OP1w 4K v2 features a modding-friendly design with hot-swappable main button switches. This allows users to replace the pre-sorted Kailh GX switches with other compatible switches to customize click feel and actuation force. Refer to the maintenance section for detailed instructions on switch replacement.

MAINTENANCE

Cleaning

- **Exterior:** Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the mouse surface. Avoid harsh chemicals or abrasive materials.
- **Sensor:** Use a cotton swab or compressed air to gently clean the optical sensor opening on the underside of the mouse.
- **Scroll Wheel:** Use compressed air to remove dust or debris that may accumulate around the scroll wheel.

Switch Replacement (Main Buttons)

The OP1w 4K v2 is designed for easy main button switch replacement. To replace switches:

1. Ensure the mouse is turned off and disconnected from the computer.
2. Carefully open the mouse casing according to the instructions provided on the official ENDGAME GEAR

website or in a dedicated modding guide.

3. Gently pull out the existing switches from their sockets.
4. Align the pins of the new compatible switches with the sockets and press them firmly into place.
5. Reassemble the mouse casing.

Note: Only use compatible switches. Improper handling during replacement may void your warranty. Refer to ENDGAME GEAR's official resources for detailed guidance.

PTFE Skate Replacement

The PTFE glide feet (skates) on the underside of the mouse can be replaced if they become worn. Replacement skates can be purchased separately. To replace:

1. Carefully peel off the old skates.
2. Clean the surface where the skates were attached to ensure no residue remains.
3. Apply the new skates, ensuring they are properly aligned and pressed firmly.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Mouse not responding (Wireless)	Low battery; Dongle not connected; Mouse not paired; Interference.	Charge the mouse. Ensure dongle is securely plugged in. Re-pair the mouse using the ENDGAME GEAR software. Move dongle closer to mouse or away from other wireless devices.
Mouse not responding (Wired)	Cable not connected properly; Faulty USB port.	Ensure USB-C cable is fully inserted into both mouse and computer. Try a different USB port.
Inconsistent tracking or cursor movement	Dirty sensor; Unsuitable mouse pad surface; Software settings.	Clean the optical sensor. Use a high-quality mouse pad. Check DPI/CPI settings in the ENDGAME GEAR software.
Scroll wheel erratic or not functioning	Debris in scroll wheel mechanism; Hardware issue.	Use compressed air to clear debris around the scroll wheel. If the issue persists, contact customer support.
Buttons not clicking or double-clicking	Switch wear; Debris under button.	If switches are hot-swappable, consider replacing them. Clean around the button. If issue persists, contact support.

SPECIFICATIONS

Feature	Detail
Brand	ENDGAME GEAR
Model Number	EGG-OP1W-4K-V2-BLK
Color	Black
Connectivity Technology	Radio Frequency (2.4 GHz Wireless), USB (Wired)
Movement Detection Technology	Optical (PixArt PAW3950)
Mouse Maximum Sensitivity	30,000 Dots per Inch (CPI)
Polling Rate	Up to 4000Hz Wireless, 1000Hz Wired
Button Quantity	5
Hand Orientation	Right
Switches	Kailh GX (Hot-Swappable Main Buttons)
Special Feature	Modding-friendly design with swappable main button
Compatible Devices	Personal Computer (PC)
Power Source	Battery Powered
Battery Average Life	Approximately 4 days (usage dependent)
Item Weight	2.1 Ounces (~59.5g)
Enclosure Material	Plastic

WARRANTY AND SUPPORT

Limited Warranty

The ENDGAME GEAR OP1w 4K v2 Wireless Gaming Mouse comes with a Limited Warranty. Please refer to the official ENDGAME GEAR website or your purchase documentation for specific terms and conditions regarding warranty coverage, duration, and claims process.

Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty inquiries, please visit the official ENDGAME GEAR support page on their website. You can typically find FAQs, driver downloads, and contact information for their customer service team there.

Official Website: www.endgamegear.com

