

MAGIC-REFINER R1

MAGIC-REFINER R1 Wireless Gaming Mouse User Manual

Model: R1

INTRODUCTION

The MAGIC-REFINER R1 Wireless Gaming Mouse is a high-performance, ultra-lightweight peripheral designed for an optimal gaming and work experience. Featuring tri-mode connectivity (Bluetooth 5.2, 2.4GHz Wireless, and Wired), a PixArt PAW3311 optical sensor, and durable Huanyu white dot micro switches, this mouse offers precision, responsiveness, and comfort for extended use. Its 59g lightweight design reduces fatigue, while programmable buttons and long battery life enhance user customization and convenience.

PRODUCT FEATURES

- **59g Ultra Lightweight Design:** Engineered for minimal weight to reduce fatigue during long gaming sessions, offering stable surface contact and flawless tracking.
- **Tri-mode Connectivity:** Seamlessly switch between Bluetooth 5.2, 2.4GHz wireless, and wired USB-C connections for versatile use across various devices.
- **PixArt PAW3311 Gaming Sensor:** Equipped with a flagship optical sensor offering up to 18,000 DPI with 6 levels of adjustment for precise tracking and responsiveness.
- **Durable Switches & Encoder:** Features Huanyu white dot micro switches with over 20 million click cycles and a deeply optimized TTC scroll wheel encoder for crisp clicks and precise scrolling.
- **Long Battery Life:** A rechargeable battery provides over 65 hours of usage on a single 2-hour charge, based on simulated normal usage.
- **Programmable Buttons:** Customize up to 7 buttons, DPI settings, polling rate, and create macros using the self-developed driver software. Settings can be saved to onboard memory.
- **Included Grip Tape:** Comes with 6 pieces of non-slip grip tape for enhanced control and personalized style.

PAW3311
PixArt Flagship Sensor

TTC Encoders
Faster Rebound

ULTRA LIGHT

59g
Lightweight Design

Lightweight Gaming Office Sweat

Huano Switch
20 Million Times

Broadcom BK3633 Master
High Performance Low Latency Anti-Interference

800-18000DPI
6-Level Adjustment

R1-MOUSE

Figure 1: Key features of the R1 mouse, including its 59g lightweight design, Huanyu switches, Broadcom BK3633 chip, and 800-18000 DPI range.

Powerful Chip



Figure 2: The powerful PixArt PAW3311 sensor, offering up to 18000 DPI, 400 IPS, 40G acceleration, and 1000Hz return rate.

“TTC” Encoders

Using TTC encoder, which has been deeply optimized and adjusted to make the feel crisper, the rebound faster, and the trigger is first.

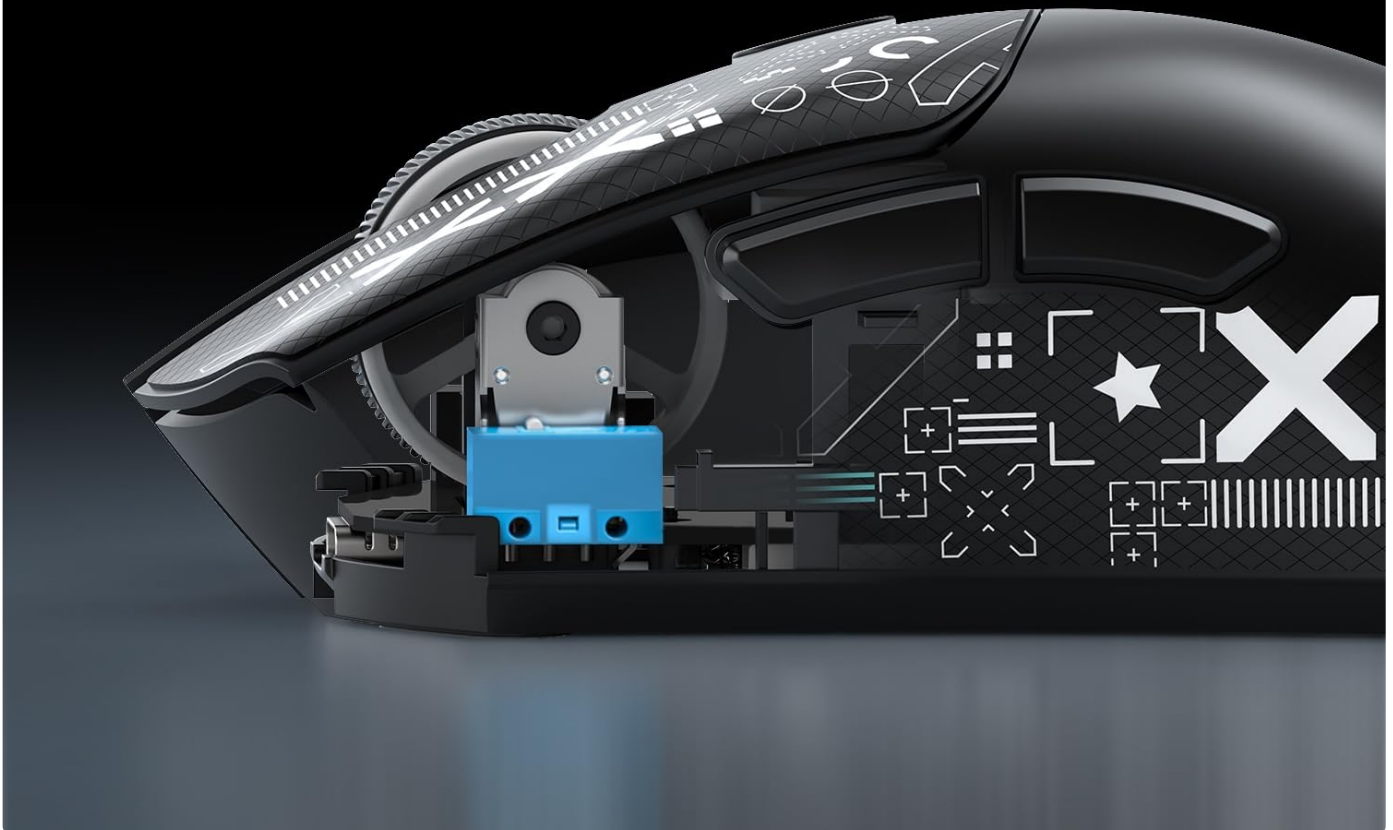


Figure 3: The TTC encoder, optimized for crisp feel, faster rebound, and precise trigger, with a 20 million click lifespan.

SETUP GUIDE

Package Contents:

- MAGIC-REFINER R1 Wireless Gaming Mouse
- USB-C Charging Cable
- 2.4GHz USB Receiver
- Non-Slip Grip Tape (6 pieces)
- User Manual (this document)

Initial Setup:

1. **Charge the Mouse:** Connect the USB-C charging cable to the mouse and a power source (e.g., computer USB port, USB wall adapter). The mouse will indicate charging status. A full charge takes approximately 2 hours.

2. **Retrieve USB Receiver:** The 2.4GHz USB receiver is typically stored in a compartment on the underside of the mouse for safekeeping. Gently remove it.
3. **Power On:** Locate the power switch on the bottom of the mouse and slide it to the "ON" position.





Figure 4: The underside of the R1 mouse, showing the power switch, optical sensor, and the storage slot for the 2.4GHz USB receiver.

OPERATING INSTRUCTIONS

Connectivity Modes:

The R1 mouse supports three connection modes: Wired, 2.4GHz Wireless, and Bluetooth 5.2. You can switch between these modes using the switch on the bottom of the mouse.

- **Wired Mode:** Connect the mouse directly to your computer using the provided USB-C cable. The mouse will function immediately and charge simultaneously.
- **2.4GHz Wireless Mode:**
 - a. Plug the 2.4GHz USB receiver into an available USB port on your computer.
 - b. Slide the switch on the bottom of the mouse to the "2.4G" position.
 - c. The mouse should automatically connect. If not, press the pairing button (if available, refer to the diagram on the mouse bottom) or re-plug the receiver.
- **Bluetooth 5.2 Mode:**
 - a. Slide the switch on the bottom of the mouse to the "BT" position.
 - b. On your computer or device, open Bluetooth settings and search for new devices.
 - c. The mouse should appear as "R1 Mouse" or similar. Select it to pair.
 - d. For forced pairing, short press the BT channel switch and hold for 3 seconds.

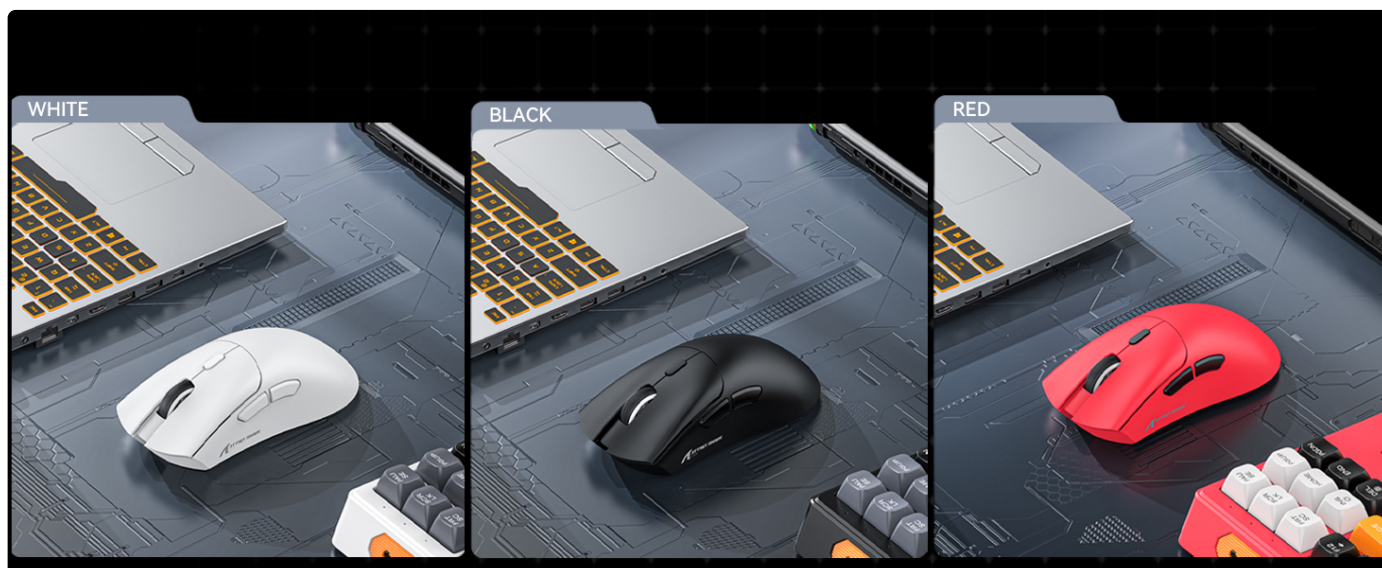


Figure 5: Overview of the R1 mouse's buttons, dimensions, and connection options (Wired, 2.4G, BT5.2).

DPI Adjustment:

The R1 mouse features a dedicated DPI button, typically located behind the scroll wheel. Press this button to cycle through the preset DPI levels (800, 1200, 1600, 2400, 3200, 6400, up to 18000 DPI). The mouse may have an indicator light to show the current DPI setting.

Software Customization:

To unlock the full potential of your R1 mouse, download and install the official driver software from the MAGIC-REFINER website. The software allows you to:

- Program all 7 buttons with custom functions or macros.
- Adjust DPI levels and create custom profiles.
- Set polling rates (up to 1000Hz).
- Monitor battery level.
- Save settings to the mouse's onboard memory.



Figure 6: The R1 Macro Drive software interface, allowing users to customize buttons, DPI, polling rate, and create macros for a personalized gaming experience.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe the mouse surface. For stubborn dirt, slightly dampen the cloth with water or a mild cleaning solution. Avoid harsh chemicals or abrasive materials.
- **Sensor Care:** Keep the optical sensor on the bottom of the mouse clean and free of dust or debris to ensure accurate tracking.
- **Storage:** When not in use for extended periods, store the mouse in a cool, dry place. If using the 2.4GHz wireless mode, consider storing the USB receiver in its dedicated compartment on the mouse's underside.
- **Battery Life:** To prolong battery life, avoid fully discharging the mouse frequently. Charge it when the battery indicator is low.

TROUBLESHOOTING

Problem	Possible Solution
Mouse not responding (Wireless)	<p>Ensure the mouse is powered on.</p> <p>Check battery level and charge if necessary.</p> <p>For 2.4GHz: Ensure the USB receiver is securely plugged in. Try a different USB port.</p> <p>For Bluetooth: Ensure Bluetooth is enabled on your device and the mouse is paired. Try re-pairing.</p> <p>Move closer to the receiver/device to reduce interference.</p>

Problem	Possible Solution
Mouse cursor erratic or jumpy	<p>Clean the optical sensor on the bottom of the mouse.</p> <p>Use the mouse on a clean, uniform surface or a mouse pad.</p> <p>Check for strong electromagnetic interference nearby.</p>
Buttons or scroll wheel not working	<p>Ensure the mouse is fully charged.</p> <p>Try connecting the mouse in wired mode to see if the issue persists.</p> <p>Reset the mouse (if a reset button is available, refer to the product diagram).</p> <p>Reinstall the driver software.</p>
Cannot connect via Bluetooth	<p>Ensure the mouse is in Bluetooth pairing mode (short press BT channel switch and hold for 3 seconds).</p> <p>Make sure your device's Bluetooth is on and discoverable.</p> <p>Remove previous pairings of the mouse from your device's Bluetooth list and try pairing again.</p> <p>Restart your device.</p>

SPECIFICATIONS

Feature	Detail
Model	R1
Connectivity	Bluetooth 5.2, 2.4GHz Wireless, Wired (USB-C)
Sensor	PixArt PAW3311 Optical Sensor
DPI Range	800 - 18,000 DPI (6 adjustable levels)
Polling Rate	Up to 1000Hz
Tracking Speed	400 IPS (Inches Per Second)
Acceleration	40G
Switches	Huanyu White Dot Micro Switches (20 Million Clicks)
Encoder	TTC Scroll Wheel Encoder
Weight	59g (approx. 2.08 ounces)
Battery Life	Up to 65 hours (simulated normal usage)
Charging Time	Approx. 2 hours
Dimensions	4.6 x 2.4 x 1.5 inches (Package Dimensions)
Manufacturer	MAGIC-REFINER
Country of Origin	China

OFFICIAL PRODUCT VIDEO

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Video 1: An official product video showcasing the features and performance of the R1 SUPERLIGHT Gaming Mouse, including its sensor, switches, and connectivity options.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official MAGIC-REFINER website or contact their customer service directly. Keep your purchase receipt for warranty claims.

Official Brand Store: [MAGIC-REFINER Store on Amazon](#)