

Logitech G G502 X

Logitech G502 X Wired Gaming Mouse User Manual

Brand: Logitech G | Model: G502 X

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Logitech G502 X Wired Gaming Mouse. The G502 X is a high-performance gaming mouse featuring LIGHTFORCE hybrid optical-mechanical switches, a HERO 25K gaming sensor, and compatibility with PC and Mac operating systems via USB. It is designed for precision and reliability in gaming environments.

Key features include:

- **LIGHTFORCE Hybrid Optical-Mechanical Switches:** Engineered for speed, reliability, and precise actuation with a crisp response.
- **HERO 25K Gaming Sensor:** Offers sub-micron precision with zero smoothing, filtering, or acceleration for consistent high-performance gaming.
- **Redesigned DPI-Shift Button:** Reversible and removable for customizable grip and preference.
- **Hyperfast Scroll Wheel:** Allows switching between hyper-fast free spin and precise ratcheting modes, with tilt functionality for additional controls.
- **Reduced Weight:** Constructed with a thin-wall exoskeleton and a lightened scroll wheel, achieving a total weight of 89 grams.

ADJUSTABLE DPI-SHIFT BUTTON



KEEP PLAYING



REVERSIBLE AND REMOVABLE
TO SUIT YOUR GRIP

Figure 1.1: An illustration of the Logitech G502 X's lightweight design, achieved through thin-wall molding to reach 89 grams.

2. WHAT'S IN THE BOX

Upon unpacking your Logitech G502 X Wired Gaming Mouse, please ensure all the following components are present:

- Logitech G502 X Wired Gaming Mouse

Note: This product is a renewed item. Packaging contents may vary slightly from new retail versions.

3. SETUP GUIDE

3.1 Connecting Your Mouse

1. **Unpack the Mouse:** Carefully remove the Logitech G502 X Wired Gaming Mouse from its packaging.
2. **Connect to Computer:** Plug the USB connector of the mouse cable into an available USB port on your PC or Mac.

3. **Driver Installation:** Your operating system should automatically detect and install the necessary drivers. This process may take a few moments.

3.2 Installing Logitech G HUB Software (Recommended)

To unlock the full potential of your G502 X mouse, including customizable buttons, DPI settings, and LIGHTSYNC RGB lighting (if applicable), it is highly recommended to install the Logitech G HUB software.

1. **Download G HUB:** Visit the official Logitech G website (www.logitechg.com/ghub) and download the latest version of Logitech G HUB software for your operating system.
2. **Install Software:** Follow the on-screen instructions to install the software.
3. **Launch G HUB:** Once installed, launch Logitech G HUB. Your G502 X mouse should be automatically detected.
4. **Customize Settings:** Use G HUB to customize button assignments, adjust DPI levels, create profiles for different games, and manage other advanced settings.

4. OPERATING YOUR MOUSE

4.1 Understanding Mouse Buttons and Features

The Logitech G502 X features multiple programmable buttons and advanced functionalities. Refer to the image below for a visual guide to the mouse's layout.



Figure 4.1: Top-down view of the Logitech G502 X Wired Gaming Mouse, highlighting its ergonomic shape and button placement. This image displays the primary left and right click buttons, the scroll wheel, DPI-shift button, and additional side buttons.

- **Left/Right Click (LIGHTFORCE Switches):** Utilize the new hybrid optical-mechanical switches for fast and reliable clicks.
- **Scroll Wheel:** The hyperfast scroll wheel can switch between two modes:
 - **Hyperfast Free Spin:** For rapid scrolling through long documents or web pages.
 - **Precise Ratcheting Mode:** For controlled, step-by-step scrolling, ideal for weapon selection in games.

The scroll wheel also supports left and right tilt for additional programmable functions.



Figure 4.2: A detailed view of the Logitech G502 X's hyperfast scroll wheel, illustrating its dual-mode capability for free spin or precise ratcheting.

- **DPI-Shift Button:** Located near the thumb rest, this button allows for on-the-fly DPI adjustments, typically used for temporary lower DPI for precision aiming. It is reversible and removable to suit different grip styles.



Figure 4.3: An image focusing on the adjustable DPI-shift button of the Logitech G502 X, highlighting its reversible and removable design for user customization.

- **Programmable G-Buttons:** The mouse features several additional buttons (G4, G5, G6, G7, G8, G9, G-Shift) that can be customized using the Logitech G HUB software for macros, keybinds, or system commands.

4.2 Customizing with Logitech G HUB

Logitech G HUB software provides extensive customization options:

- **DPI Sensitivity:** Adjust DPI levels from 100 to 25,600 using the HERO 25K sensor. Set multiple DPI stages and switch between them using the dedicated DPI buttons.
- **Button Assignments:** Reassign any of the mouse buttons to perform specific actions, macros, or system commands.
- **Profiles:** Create and save custom profiles for different games and applications. G HUB can automatically switch profiles when you launch a specific program.
- **LIGHTSYNC RGB (if applicable):** Customize the lighting effects and colors of your mouse to match your setup or synchronize with other Logitech G devices.

5. MAINTENANCE AND CARE

Proper maintenance ensures the longevity and optimal performance of your Logitech G502 X Wired Gaming Mouse.

- **Cleaning the Mouse:**
 - Disconnect the mouse from your computer before cleaning.
 - Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the surface of the mouse.
 - Avoid using harsh chemicals, abrasive cleaners, or solvents.
 - For crevices and button gaps, use a can of compressed air to remove dust and debris.
- **Cleaning the Sensor:**
 - Gently wipe the optical sensor on the underside of the mouse with a clean, dry cotton swab or a soft cloth.
 - Ensure no dust or lint obstructs the sensor for accurate tracking.
- **Cable Care:**
 - Avoid sharp bends or kinks in the USB cable.
 - Do not pull the cable forcefully when disconnecting the mouse.

6. TROUBLESHOOTING

If you encounter issues with your Logitech G502 X mouse, refer to the following common problems and solutions:

- 1. Mouse Not Responding:**
 - Ensure the USB cable is securely plugged into a working USB port on your computer.
 - Try plugging the mouse into a different USB port.
 - Restart your computer.
 - Test the mouse on another computer to determine if the issue is with the mouse or your system.
- 2. Inconsistent Tracking or Cursor Jumps:**
 - Clean the optical sensor on the underside of the mouse (refer to Section 5. Maintenance and Care).
 - Ensure you are using the mouse on a clean, uniform surface. Avoid highly reflective or transparent surfaces.
 - Check your DPI settings in Logitech G HUB; very high DPI can sometimes lead to perceived instability.
- 3. Logitech G HUB Not Recognizing Mouse:**
 - Ensure the mouse is properly connected to your computer.
 - Restart Logitech G HUB software.
 - Update Logitech G HUB to the latest version.
 - Reinstall Logitech G HUB software.
 - Check your operating system's device manager to ensure the mouse drivers are installed correctly.
- 4. Buttons Not Functioning or Double-Clicking:**
 - Check button assignments in Logitech G HUB to ensure they are configured as desired.
 - For physical issues like sticking or double-clicking, ensure the buttons are clean and free of debris. If the issue persists, it may indicate a hardware fault.

7. TECHNICAL SPECIFICATIONS

Below are the technical specifications for the Logitech G502 X Wired Gaming Mouse:

Feature	Specification
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Feature	Specification
Product Dimensions	6.1 x 4 x 2 inches
Item Weight	3.14 ounces (89 grams)
ASIN	B0DHDBWQC9
Batteries	1 AAA batteries required. (included) - <i>Note: This is likely an error in the source data for a wired mouse.</i>
Manufacturer	Logitech
Brand	Logitech G
Color	White
Connectivity Technology	USB (Wired)
Special Feature	Lightweight
Movement Detection Technology	Optical (HERO 25K Sensor)
Date First Available	September 18, 2024

Note on Batteries: The specification for "1 AAA batteries required. (included)" appears to be an inconsistency in the provided data, as the Logitech G502 X is a wired gaming mouse and typically does not require batteries.

8. WARRANTY AND SUPPORT

8.1 Product Warranty

As this product is listed as "Renewed," the warranty terms may differ from a new product. Please refer to the specific warranty information provided by the seller ("Tech Union") at the time of purchase or contact them directly for details regarding your renewed product's warranty coverage. Standard Logitech warranties typically apply to new products. Optional protection plans were available at the time of purchase, including 3-Year and 4-Year Protection Plans, and a Complete Protect monthly plan. If you purchased one of these, please refer to its terms and conditions.

8.2 Customer Support

For further assistance, technical support, or to access the latest drivers and software, please visit the official Logitech G support website:

[Logitech G Support](#)

You can also find community forums and FAQs on their website which may help resolve common issues.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question