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› [Logitech G](#) /

› Logitech G502 X Wired Gaming Mouse User Manual

Logitech G 910-006136

Logitech G502 X Wired Gaming Mouse User Manual

Model: 910-006136 | Brand: Logitech G

1. OVERVIEW

The Logitech G502 X Wired Gaming Mouse is the latest iteration of Logitech's renowned G502 series, engineered for high-performance gaming. It integrates advanced technologies such as LIGHTFORCE hybrid optical-mechanical switches and the HERO 25K sensor, offering precision and responsiveness for an enhanced gaming experience. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting of your G502 X mouse.



Figure 1: Logitech G502 X Wired Gaming Mouse, showcasing its ergonomic design and wired connection.

2. KEY FEATURES

- **LIGHTFORCE Hybrid Optical-Mechanical Switches:** Experience incredible speed, reliability, and precise actuation with crisp response for primary left and right buttons.

LIGHTFORCE SWITCHES



KEEP PLAYING —...

**HYBRID OPTICAL-
MECHANICAL TECHNOLOGY**

Figure 2: Diagram illustrating the LIGHTFORCE hybrid optical-mechanical switches, highlighting their advanced technology for fast and reliable clicks.

- **HERO 25K Gaming Sensor:** Achieve sub-micron precision with zero smoothing, filtering, or acceleration, ensuring high gaming performance.

HERO 25K SENSOR



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**SUB-MICRON PRECISION
UP TO 25,600 DPI**

Figure 3: Underside view of the G502 X mouse, showing the HERO 25K sensor for precise tracking.

- **Redesigned DPI-Shift Button:** A reversible and removable DPI-shift button allows for precise customization to suit your grip and preference.

ADJUSTABLE DPI-SHIFT BUTTON



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REVERSIBLE AND REMOVABLE
TO SUIT YOUR GRIP

Figure 4: Close-up of the adjustable DPI-shift button, designed for user-specific customization and comfort.

- **Redesigned Hyperfast Scroll Wheel:** Seamlessly switch between hyper-fast free spin and precise ratcheting modes. The scroll wheel also tilts left and right for two additional programmable controls.

HYPERFAST SCROLL WHEEL



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**DUAL-MODE: FREESPIN
OR PRECISE RATCHET**

Figure 5: Detail of the hyperfast scroll wheel, illustrating its dual-mode functionality for quick scrolling or precise control.

- **Reduced Weight:** Constructed with a thin-wall exoskeleton, the mouse achieves a lightweight design of 89 grams, enhancing maneuverability.



Figure 6: Top view of the G502 X mouse, emphasizing its lightweight construction for improved handling.

- **13 Programmable Controls:** Customize your gameplay with 13 programmable buttons for various commands and macros.



Figure 7: Side view of the G502 X mouse, indicating the placement of its 13 programmable controls and PTFE feet.

3. SETUP

3.1 System Requirements

- Windows 10 or later
- macOS 10.14 or later
- Available USB port
- Internet access for optional software download (Logitech G HUB)

3.2 Connecting Your Mouse

1. Locate an available USB port on your computer.
2. Plug the USB connector of the Logitech G502 X Wired Gaming Mouse into the USB port.
3. Your operating system will automatically detect and install the necessary drivers. This may take a few moments.
4. For advanced customization and programming of buttons, download and install the Logitech G HUB software from the

4. OPERATING THE MOUSE

4.1 Basic Functionality

The Logitech G502 X functions as a standard mouse with left-click, right-click, and scroll wheel operations immediately upon connection.

4.2 Customizing with Logitech G HUB

The Logitech G HUB software allows you to unlock the full potential of your G502 X mouse. With G HUB, you can:

- Program all 13 buttons with custom commands, macros, or system functions.
- Adjust the DPI (Dots Per Inch) sensitivity from 100 to 25,600 DPI.
- Create and save multiple onboard memory profiles for different games or applications.
- Configure the hyperfast scroll wheel's modes.
- Manage the reversible and removable DPI-shift button.

Refer to the Logitech G HUB software's in-app guide for detailed instructions on customization.

Your browser does not support the video tag.

Video 1: An official video from Logitech, Inc. demonstrating features of the Logitech G502X mouse. This video provides a visual overview of the mouse's design and functionality.

5. MAINTENANCE

To ensure the longevity and optimal performance of your Logitech G502 X mouse, follow these maintenance guidelines:

- **Cleaning:** Use a soft, lint-free cloth to wipe the surface of the mouse. For stubborn dirt, slightly dampen the cloth with water. Avoid using harsh chemicals, abrasive cleaners, or solvents.
- **Sensor Care:** Keep the optical sensor on the underside of the mouse clean and free from dust or debris. Use a can of compressed air to gently clear any obstructions.
- **Cable Management:** Avoid sharp bends or excessive pulling on the mouse cable to prevent damage.
- **Storage:** When not in use, store the mouse in a clean, dry environment away from extreme temperatures.

6. TROUBLESHOOTING

If you encounter issues with your Logitech G502 X mouse, refer to the following common troubleshooting steps:

Problem	Possible Solution
Mouse is 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.
Cursor movement is erratic or imprecise.	Clean the optical sensor on the bottom of the mouse. Ensure you are using the mouse on a clean, non-reflective, and uniform surface. Adjust DPI settings using Logitech G HUB software.

Problem	Possible Solution
Buttons are not responding or have intermittent clicks.	Ensure Logitech G HUB software is up to date. Check button assignments in Logitech G HUB to ensure they are correctly configured. If the issue persists, contact Logitech support for further assistance.
Logitech G HUB software does not detect the mouse.	Ensure the mouse is connected directly to a USB port, not through a USB hub. Restart Logitech G HUB software. Reinstall Logitech G HUB software. Check for any pending operating system updates.

7. SPECIFICATIONS

Feature	Detail
Brand	Logitech G
Model Number	910-006136
Connectivity	Wired (USB)
Sensor	HERO 25K Optical
Resolution	100 - 25,600 DPI
Switches	LIGHTFORCE Hybrid Optical-Mechanical
Programmable Buttons	13
Onboard Memory Profiles	Up to 5
Feet	PTFE
Weight	89 g (3.14 oz)
Dimensions (L x W x H)	131.4 x 79.2 x 41.1 mm (5.17 x 3.12 x 1.62 in)
Color	Black

8. WARRANTY AND SUPPORT

Logitech provides a limited hardware warranty for its products. For specific warranty terms and conditions applicable to your region, please refer to the official Logitech website or the warranty information included with your product packaging. For technical support, driver downloads, and additional resources, visit the official Logitech G support page: [Logitech G Support](#)

You can also find the official User Manual (PDF) for this product here: [User Manual \(PDF\)](#)

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

Details

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