Logitech G 910-006178

Logitech G502 X Lightspeed Wireless Gaming Mouse User Manual

Model: 910-006178 | Brand: Logitech G

Introduction

The Logitech G502 X LIGHTSPEED Wireless Gaming Mouse is an advanced peripheral designed for high-performance gaming. It integrates cutting-edge technologies such as LIGHTFORCE hybrid optical-mechanical switches and the HERO 25K gaming sensor, offering precision, speed, and reliability. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your G502 X LIGHTSPEED mouse.



Figure 1: Logitech G502 X Lightspeed Wireless Gaming Mouse (Black)

Setup

1. Initial Connection

To connect your G502 X LIGHTSPEED mouse, locate the USB receiver. It is typically stored inside the mouse or provided alongside it. Insert the USB receiver into an available USB port on your computer. The mouse should automatically connect.

2. Software Installation

For full customization and advanced features, install the Logitech G HUB software. This software allows you to:

- Customize button assignments (13 programmable controls).
- Adjust DPI settings (100 – 25,600 DPI).
- Manage onboard memory profiles (5 profiles).
- Configure LIGHTSPEED wireless settings.

Download Logitech G HUB from the official Logitech G website: Logitech G HUB.

Operating the Mouse

LIGHTFORCE Hybrid Optical-Mechanical Switches

The G502 X LIGHTSPEED features LIGHTFORCE hybrid optical-mechanical switches for the primary left and right buttons. These switches combine the speed and reliability of optical actuation with the crisp, tactile feedback of mechanical switches.



Figure 2: Illustration of LIGHTFORCE Hybrid Optical-Mechanical Switches

LIGHTSPEED Wireless Technology

Experience pro-grade wireless connectivity with LIGHTSPEED technology, offering a 68% faster response rate compared to previous generations and enhanced reliability for uninterrupted gaming.



Figure 3: LIGHTSPEED Wireless connectivity with up to 140 hours of battery life.

HERO 25K Gaming Sensor

The mouse is equipped with the HERO 25K sensor, providing sub-micron precision from 100 to 25,600 DPI, ensuring accurate tracking without smoothing, filtering, or acceleration.



Figure 4: Underside view showing the HERO 25K sensor and PTFE feet.

DPI-Shift Button and Scroll Wheel

The DPI-shift button is reversible and removable, allowing for personalized placement based on your grip style. The redesigned dual-mode scroll wheel offers both hyper-fast free spin and precise ratcheting modes, along with tilt-left and tilt-right functions for additional programmable controls.



Figure 5: Key features including the adjustable DPI-shift button, redesigned dual-mode scroll wheel, USB-C charging port, and PTFE feet.

Programmable Controls

The G502 X LIGHTSPEED features 13 programmable controls. These can be customized via the Logitech G HUB software to execute macros, keyboard shortcuts, or specific in-game actions, enhancing your control and efficiency.

Your browser does not support the video tag.

Video 1: An overview of the Logitech G502X mouse, demonstrating its features and design.

Maintenance

Battery Life and Charging

The G502 X LIGHTSPEED offers an optimized battery life of up to 140 hours of constant motion. It features a USB-C charging port for convenient recharging.
For continuous wireless charging, the mouse is compatible with Logitech's POWERPLAY wireless charging solution (sold separately).

Troubleshooting

Issue	Possible Solution
Mouse not responding	Ensure the USB receiver is securely plugged into a working USB port. Check the mouse's power switch to ensure it is turned on. Recharge the mouse battery using the USB-C cable. Try a different USB port or computer to isolate the issue.
Intermittent connection or lag	Move the USB receiver closer to the mouse. Avoid placing the receiver near other wireless devices (e.g., Wi-Fi routers, cordless phones) that may cause interference. Ensure Logitech G HUB software is up to date.
DPI or button settings not applying	Ensure Logitech G HUB software is running and the correct profile is active. Save changes to the onboard memory profiles if you intend to use the mouse without the software running. Restart the Logitech G HUB software or your computer.

Specifications

Model: 910-006178

Weight: 3.59 oz (102 g)

Dimensions: 5.17 x 1.62 x 3.12 inches (131.4 x 41.1 x 79.2 mm)

Sensor: HERO 25K

Resolution: 100 – 25,600 DPI

Buttons: 13 programmable controls

Switches: LIGHTFORCE hybrid optical-mechanical

Connectivity: LIGHTSPEED Wireless, USB-C (for charging/wired use)

Battery Life: Up to 140 hours (constant motion)

Onboard Memory: 5 profiles

Feet: PTFE

System Requirements: Windows 10 or later, macOS 10.14 or later



Figure 6: The lightweight design of the G502 X, achieved through thin-wall molding, weighing 102 grams.

Warranty and Support

For detailed warranty information and customer support, please visit the official Logitech G support page or refer to the full user manual PDF.

- Download Full User Manual (PDF)
- Visit the Official Logitech G Store

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