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- › [GameSir](#) /
- › [GameSir Nova 2 Lite Wireless PC Controller Instruction Manual](#)

## GameSir GameSir Nova2 Lite

# GameSir Nova 2 Lite Wireless PC Controller Instruction Manual

Model: **GameSir Nova2 Lite** | Brand: **GameSir**

## INTRODUCTION

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your GameSir Nova 2 Lite Wireless PC Controller. Designed for multi-platform compatibility, this controller features advanced Hall Effect joysticks and triggers, a high 1000Hz polling rate, and customizable buttons to enhance your gaming experience across PC, Nintendo Switch, Android, and iOS devices.

# GameSir Nova 2 Lite

Champions for You



Designed for  
**Switch, PC, Android & iOS**

Image: The GameSir Nova 2 Lite controller, showcasing its design and multi-platform compatibility for Switch, PC, Android, and iOS.

## PACKAGE CONTENTS

- GameSir Nova 2 Lite Wireless PC Controller
- 2.4G Wireless Dongle
- USB-C Charging Cable
- User Manual (this document)

## SETUP

### 1. Charging the Controller

Before first use, fully charge the controller. Connect the supplied USB-C cable to the controller's charging port and the other end to a USB power source (e.g., PC, USB wall adapter). The LED indicator will show charging status and turn off when fully charged.

The controller is equipped with a 600mAh battery.

## 2. Connectivity Options

The GameSir Nova 2 Lite offers three connection methods:

- **2.4G Wireless Dongle:** For PC and Nintendo Switch (via dock). Provides a stable, low-latency connection.
- **Bluetooth:** For PC, Android, and iOS devices. Ideal for wireless gaming on the go.
- **Wired (USB-C):** For PC. Offers the most stable connection with a 1000Hz polling rate.



Image: The GameSir Nova 2 Lite controller shown with its dedicated 2.4G wireless dongle for PC and Switch connectivity.

## 3. Pairing Instructions

### 3.1. 2.4G Wireless Connection (PC/Switch)

1. Insert the 2.4G wireless dongle into an available USB port on your PC or Nintendo Switch dock.
2. Turn on the GameSir Nova 2 Lite controller.
3. The controller will automatically connect to the dongle. The indicator light on the controller will become solid when connected.

### 3.2. Bluetooth Connection (PC/Android/iOS)

1. Ensure Bluetooth is enabled on your device (PC, Android phone/tablet, iOS device).
2. On the GameSir Nova 2 Lite, press and hold the Bluetooth pairing button (refer to controller diagram in Operating section for location) until the indicator light flashes rapidly.
3. On your device, search for Bluetooth devices and select "GameSir Nova 2 Lite" from the list.
4. Once paired, the indicator light on the controller will become solid.

### 3.3. Wired Connection (PC)

1. Connect the USB-C cable from the controller to a USB port on your PC.
2. The controller will be recognized automatically by your PC. No additional pairing is required.

## OPERATING THE CONTROLLER

### Key Features and Functions

- **Hall Effect Joysticks:** These joysticks utilize magnetic sensors for enhanced recentering performance and superior anti-drift capability, ensuring precise and durable control. They are also equipped with anti-friction rings for smoother movement.

## GameSir™ Hall Effect Sticks



Enhanced Recentering Performance  
Superior Anti-Drift Capability



Equipped with Anti-Friction Rings

Image: Detailed view of the GameSir Hall Effect Sticks, highlighting their internal design for enhanced precision and durability,

along with anti-friction rings.

- **2-Way Trigger Lock:** The triggers feature adjustable stops, allowing you to switch between long pull positions for smooth control (e.g., racing games) and short pull positions for quick reactions (e.g., shooting games). Hair trigger mode can be activated by pressing M+LT/RT when triggers are in the long pull position.

## Two-Stage Hall Effect Analog Triggers



**Long Trigger Travel**  
for smooth control



**Short Trigger Travel**  
for great responsiveness



Image: Illustration of the two-stage Hall Effect analog triggers, demonstrating the difference between long trigger travel for smooth control and short trigger travel for great responsiveness.

- **1000Hz Polling Rate:** Experience near-instantaneous input registration with a 1000Hz polling rate, minimizing lag and optimizing performance during competitive gameplay. This applies to both wired and 2.4G wireless dongle connections.

# 1000Hz Polling Rate

Supports Both Wired & Wireless  
Dongle Connections



Image: The GameSir Nova 2 Lite controller highlighting its 1000Hz polling rate, supported by both wired and wireless dongle connections.

- **Mechanical Circular D-pad:** Designed for quick and accurate reactions in all directions, providing superior responsiveness for precise control.
- **Dual Asymmetric Motors:** The controller features dual rumble motors that deliver varied vibration feedback, from strong impacts to subtle tremors, enhancing immersion in games.
- **Two Back Buttons:** Located on the underside of the controller, these remappable buttons support both single-button mapping and macro recording, offering flexible customization for enhanced gameplay.



## Two Back Buttons

Support Both Single-Button  
Mapping & Macro Recording

Image: The underside of the GameSir Nova 2 Lite controller, illustrating the placement of the two customizable back buttons.

- **Ultra-Low Button and Stick Latency:** Optimized design ensures minimal delay between your inputs and in-game actions.

# Ultra-Low Button and Stick Latency



Image: A user's hands on the GameSir Nova 2 Lite controller during gameplay, illustrating the ultra-low button and stick latency for a responsive experience.

## Software Customization

For advanced customization, firmware upgrades, and fine-tuning, download the official GameSir app (for mobile devices) or GameSir Connect app (for PC). These applications allow you to:

- Adjust stick and trigger dead zones.
- Customize vibration intensity.
- Test buttons and functions.
- Perform firmware updates.

# Full Customization

via GameSir Connect App & GameSir App



Image: A visual representation of the GameSir Connect app on PC and the GameSir mobile app, demonstrating the full range of customization options available for the controller.



Image: A detailed collage showcasing various features of the GameSir Nova 2 Lite, including its mechanical bumper, membrane ABXY buttons, laser-engraved textured grips, 600mAh battery, and dual asymmetric rumble motors.

## MAINTENANCE

### Cleaning

To maintain your controller's condition, regularly wipe its surface with a soft, dry cloth. For stubborn dirt, slightly dampen the cloth with water. Avoid using harsh chemicals, abrasive cleaners, or solvents, as these can damage the controller's finish and internal components.

### Storage

Store the controller in a cool, dry place away from direct sunlight and extreme temperatures. When not in use for extended periods, ensure the controller is fully charged before storage to preserve battery health. The product comes with a protective case, which is ideal for storage and travel.

### Battery Care

The controller contains a non-standard rechargeable battery. To prolong battery life, avoid fully discharging the battery frequently. Charge the controller when the battery low indicator appears. If the controller will not be used for a long time, charge it at least once every three months.

## TROUBLESHOOTING

### Controller Not Connecting

- **Check Battery:** Ensure the controller is sufficiently charged.
- **Re-pair:** For wireless connections, try re-pairing the controller with your device (refer to Setup section).
- **Dongle Check:** If using 2.4G, ensure the dongle is securely inserted and recognized by your device. Try a different USB port.
- **Bluetooth Interference:** Move away from other wireless devices that might cause interference.
- **Wired Connection:** Test with a wired connection to rule out wireless issues. Try a different USB-C cable.

### Input Lag or Unresponsiveness

- **Polling Rate:** Ensure you are using the 2.4G dongle or wired connection for the optimal 1000Hz polling rate, especially for competitive play.
- **Interference:** Reduce wireless interference by moving closer to the dongle or device.
- **Firmware Update:** Check for and install any available firmware updates via the GameSir Connect app.

### Stick Drift or Inaccurate Inputs

- While Hall Effect joysticks are designed to minimize drift, recalibration might be necessary. Use the GameSir Connect app to adjust stick dead zones and recalibrate.
- Ensure no physical obstructions are affecting joystick movement.

### Buttons Not Responding

- Clean around the buttons to ensure no debris is causing sticking.
- Test buttons using the GameSir Connect app to diagnose if it's a hardware or software issue.

### Factory Reset

If issues persist, a factory reset may resolve them. Refer to the GameSir official website or GameSir Connect app for specific instructions on how to perform a factory reset for your model.

## SPECIFICATIONS

Feature	Detail
Model Number	GameSir Nova2 Lite
Brand	GameSir
Connectivity	2.4G Wireless, Bluetooth, Wired (USB-C)
Compatibility	PC, Nintendo Switch, Android, iOS
Joysticks	Hall Effect Joysticks with Anti-Friction Rings
Triggers	Hall Effect Triggers with 2-Way Trigger Lock

Polling Rate	1000Hz (2.4G Wireless & Wired)
D-pad	Mechanical Circular D-pad
Vibration	Dual Asymmetric Rumble Motors
Back Buttons	2 (Programmable, Macro Recording)
Battery	600mAh (1 Nonstandard Battery required)
Product Dimensions	6.1 x 4.09 x 2.24 inches
Item Weight	15.5 ounces
Manufacturer	GameSir
Release Date	June 2, 2025

## WARRANTY AND SUPPORT

GameSir offers a **12-month Replacement Service** for this product. If you encounter any issues with your GameSir Nova 2 Lite controller, please contact GameSir customer support directly through Amazon's messaging service. They aim to reply within 24 hours and provide solutions for product-related problems. For further assistance, software downloads, and frequently asked questions, please visit the official GameSir website or their store on Amazon:

[Visit the GameSir Store on Amazon](#)