

# GravaStar Mercury M1 Pro 4K Wireless Dongle Instruction Manual

## 1. INTRODUCTION

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The GravaStar Mercury M1 Pro 4K Wireless Dongle is designed to enhance your gaming experience by providing a high-performance wireless connection for compatible mice. This dongle features a 4K Hz polling rate for ultra-responsive and precise control, minimizing latency for competitive gameplay. Its compact design includes ambient lighting indicators for status updates.

This manual provides essential information for setting up, operating, and maintaining your 4K Wireless Dongle.

## 2. PACKAGE CONTENTS

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- 1 x GravaStar Mercury M1 Pro 4K Wireless Dongle

## 3. PRODUCT OVERVIEW

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The GravaStar Mercury M1 Pro 4K Wireless Dongle is a Type-C interface device featuring a distinctive design with ambient lighting. This lighting provides visual feedback on the dongle's status.



Figure 1: GravaStar Mercury M1 Pro 4K Wireless Dongle

## 4. SYSTEM REQUIREMENTS

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- Compatible Systems: Windows XP and above

## 5. DRIVER SOFTWARE INSTALLATION

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To ensure optimal performance and functionality, driver software installation is required for the GravaStar Mercury M1 Pro 4K Wireless Dongle.

1. Download the necessary driver software from the official GravaStar website:  
<https://www.gravastar.com/pages/download>
2. Install the driver software on your computer.
3. Once installed, connect the 4K Wireless Dongle to your computer. The software interface should recognize the receiver and display its status.

## 6. PAIRING INSTRUCTIONS

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Follow these steps to pair your compatible mouse with the 4K Wireless Dongle:

1. On the homepage interface of the installed software, connect the 4K Wireless Dongle to your computer. The software will read the model of the receiver.
2. Press the spacebar on your keyboard to open the "Pairing Window."
3. Click to start pairing or press the spacebar again. The receiver will enter pairing mode, indicated by a blue light flashing once per second for 20 seconds.
4. Switch your mouse to 2.4G mode (refer to your mouse's manual for specific instructions).
5. Press and hold the left, middle, and right buttons of your mouse simultaneously. The mouse will enter pairing mode, indicated by a blue light flashing once per second for 20 seconds.
6. The software interface will display "Pairing Successful" once the mouse has successfully paired with the 4K receiver.



Figure 2: The 4K Wireless Dongle connected to a compatible mouse.

## 7. AMBIENT LIGHTING INDICATORS

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The 4K Wireless Dongle provides visual feedback through its ambient lighting:

- **Pairing Status:** Blue light flashing (1 time/1S, duration 20S).
- **Working Status (Mouse Movement):** Displays mouse battery level.
  - 3.54V~4.2V (>30% battery): Green light constant.
  - 3.0V~3.54V (≤30% battery): Red light constant.
- **Standby Status (Mouse Sleep):** Light off.
- **Unconnected Status (Inserted into Computer):** Blue breathing light.

## 8. POLLING RATE AND PERFORMANCE

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The default report rate of the 4K Wireless Dongle is 4000Hz/1ms. A higher report rate ensures better performance without issues like cursor teleportation. However, be aware that a very high report rate can consume more CPU power and affect mouse battery life.

## 9. SPECIFICATIONS

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- **Model:** GRAVASTAR 4K
- **Interface Type:** Type-C
- **Polling Rate:** 4K Hz
- **Compatible Systems:** Windows XP and above
- **Product Dimensions:** 53.5 x 27 x 21.3 mm
- **Product Weight:** 13g

## 10. TROUBLESHOOTING

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### Dongle Disconnection Issues

If the dongle frequently disconnects during use, consider the following:

- Ensure the dongle is securely inserted into a USB-C port on your computer.
- Verify that the latest driver software for the dongle is installed from the official GravaStar website.
- Check for any potential interference from other wireless devices or USB peripherals. Try connecting the dongle to a different USB-C port or using a USB extension cable to move it closer to your mouse.
- Ensure your computer's operating system and drivers are up to date.

## 11. MAINTENANCE

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To ensure the longevity and optimal performance of your GravaStar Mercury M1 Pro 4K Wireless Dongle:

- Keep the dongle clean and free from dust and debris. Use a soft, dry cloth for cleaning.
- Avoid exposing the dongle to extreme temperatures or humidity.
- Store the dongle in a safe place when not in use to prevent physical damage.

## 12. WARRANTY AND SUPPORT

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For warranty information, technical support, or further assistance, please visit the official GravaStar website or contact their customer service directly. Keep your purchase receipt for warranty claims.