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 - > IROK MG68 Rapid Trigger Magnetic Switch Keyboard User Manual

IROK MG68

IROK MG68 Rapid Trigger Magnetic Switch Keyboard User Manual

Model: MG68 | Brand: IROK

1. INTRODUCTION

This manual provides essential information for the proper use and maintenance of your IROK MG68 Rapid Trigger Magnetic Switch Keyboard. Please read these instructions carefully before using the product to ensure optimal performance and longevity. The IROK MG68 is a 65% layout mechanical keyboard featuring magnetic switches, an aluminum alloy body, and customizable RGB backlighting, designed for high-performance use.



Figure 1: IROK MG68 Rapid Trigger Magnetic Switch Keyboard (White variant).

2. PACKAGE CONTENTS

Verify that all items are present in the package:

- IROK MG68 Keyboard
- USB Cable
- Keycap Puller

3. SETUP

3.1 Wired Connection

1. Locate the USB-C port on the keyboard.
2. Connect one end of the provided USB cable to the keyboard's USB-C port.
3. Connect the other end of the USB cable to an available USB port on your computer (PC or Mac).
4. The keyboard will be automatically recognized by your operating system.

FLAGSHIP MCU CHIP

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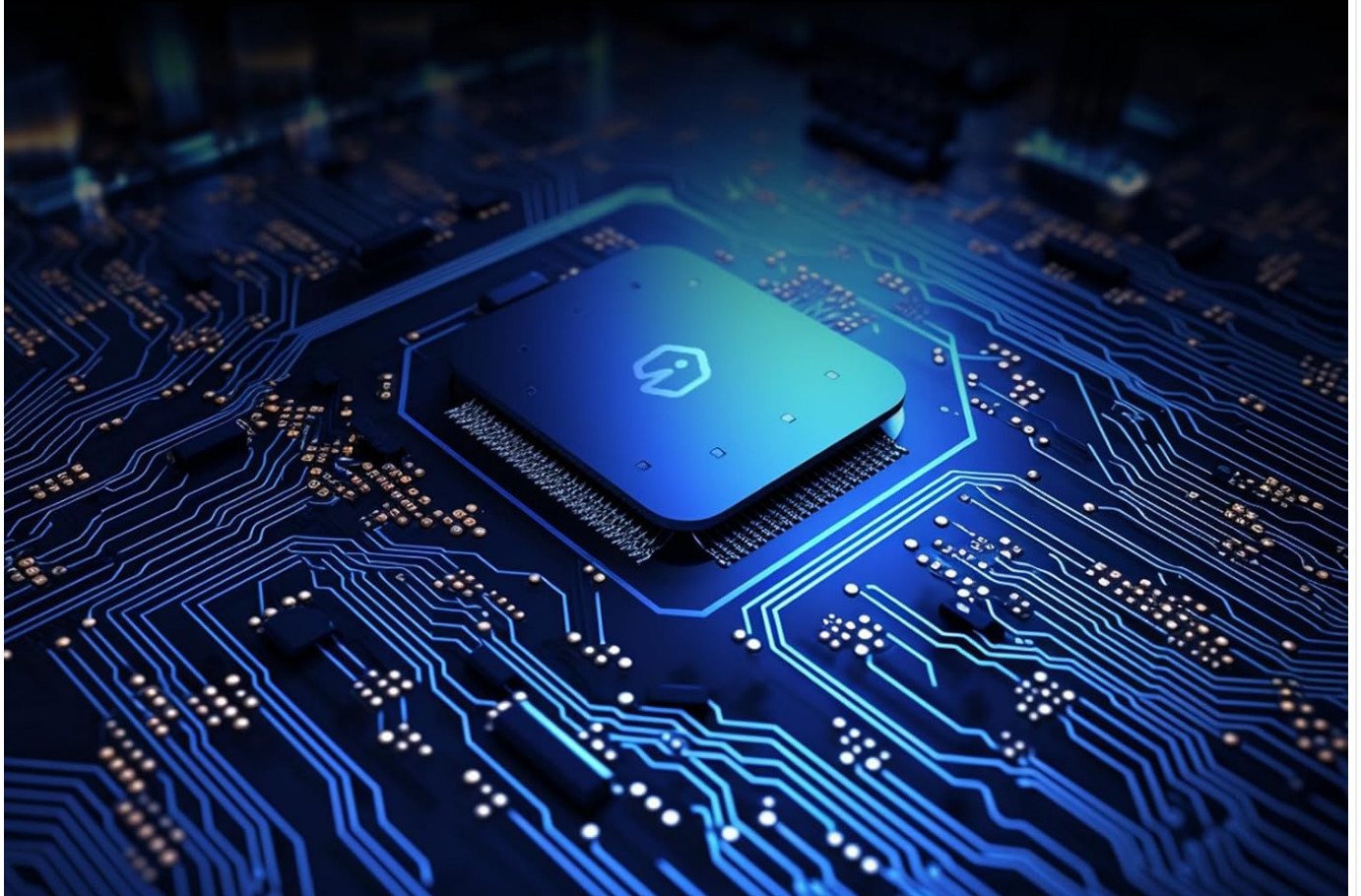


Figure 2: Connecting the IROK MG68 keyboard via USB-C cable.

3.2 Driver Installation

For full customization and advanced features, it is recommended to install the proprietary driver software.

- Visit the official IROK website to download the latest driver for the MG68 model.
- Follow the on-screen instructions to complete the installation.
- The driver supports both web-based and one-stop HUB interfaces for easy management.

WEB DRIVER

ONE-STOP HUB DRIVER

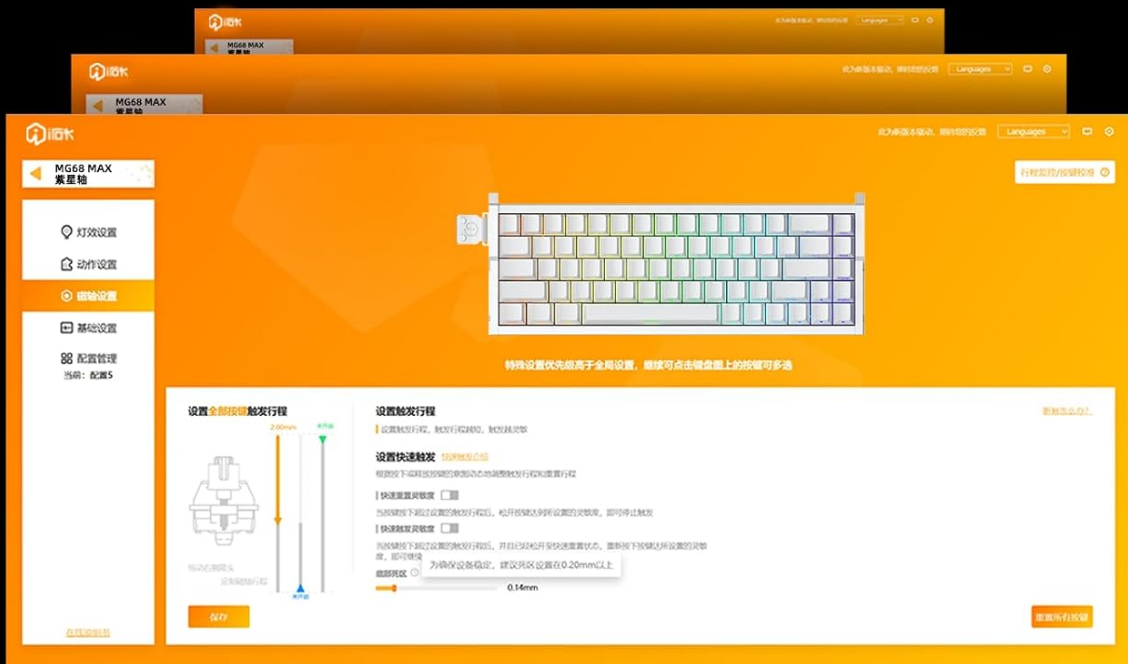


Figure 3: Example of the IROK MG68 driver software interface for customization.

4. OPERATING INSTRUCTIONS

4.1 Magnetic Switch Features

The IROK MG68 keyboard is equipped with advanced magnetic switches that utilize the Hall effect for keystroke detection. This technology allows for precise actuation and rapid response.

- **Rapid Trigger:** This feature allows for dynamic adjustment of the actuation and reset points of each key. A key can be re-actuated without fully returning to its original position, enabling faster repeated inputs.
- **KME Function (Quick Tap Mode):** Similar to SODC and ST functions, KME prioritizes the last input between two selected keys without requiring the release of the previous key. This can enhance response time in specific applications.
- **Adjustable Actuation:** The magnetic switches offer a precision of 0.01mm, allowing for fine-tuning of actuation points through the driver software.

FULL-RANGE 0.01MM PRECISION

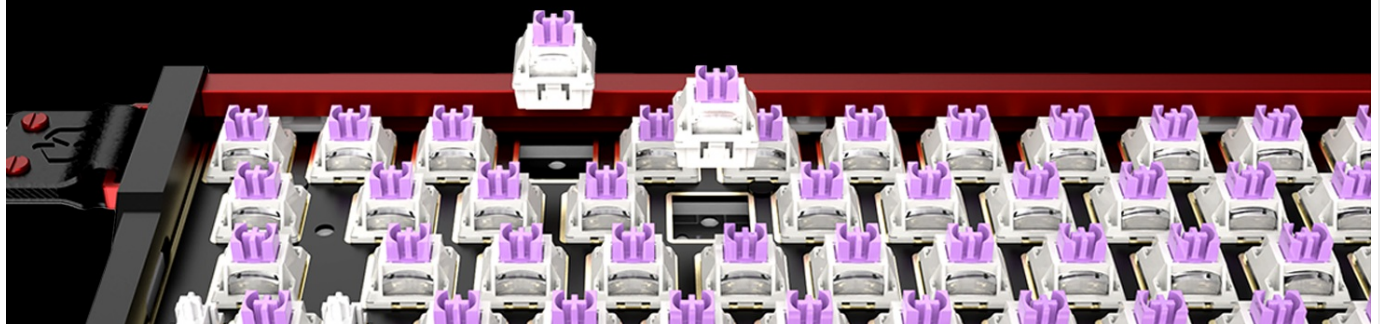
Rapid Actuation, Instant Stopping

0.01MM



Figure 4: The magnetic switches offer 0.01mm precision for customizable actuation.

**All magnetic switches with “Mix ” function,
get a personalized usage experience**



4.2 RGB Backlighting

The IROK MG68 features customizable ARGB backlighting with 16.8 million colors. Each LED has an independent chip with a refresh rate of up to 500Hz, providing smooth lighting effects.

- **Brightness Adjustment:** Use the designated function keys (refer to the keyboard's keycap legends or driver software) to adjust backlight brightness.
- **Effect Cycling:** Cycle through various pre-programmed lighting effects using function key combinations.
- **Customization:** Utilize the driver software to create and save custom lighting profiles, including static colors, dynamic effects, and per-key lighting.



Figure 6: The IROK MG68 keyboard showcasing its ARGB backlighting with a 500Hz refresh rate.

4.3 Key Remapping and Programming

The IROK MG68 keyboard supports full key remapping and macro programming through its dedicated driver software.

- Open the IROK driver software.
- Navigate to the key assignment or macro section.
- Select the key you wish to remap or program.
- Assign a new function, macro, or multimedia command.
- Save your changes to the keyboard's onboard memory or a profile.

4.4 Performance Features

- **Low Latency:** The MG68 achieves a latency as low as 0.125ms, ensuring minimal delay between key press and input registration.
- **High Polling Rate:** The keyboard features an ultra-high polling rate of 8000Hz, providing rapid communication with your computer for responsive input.



Figure 7: The IROK MG68 keyboard's low latency of 0.125ms.



Figure 8: The IROK MG68 keyboard's 8000Hz ultra-high polling rate.

5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe the keyboard surface. For deeper cleaning, use a can of compressed air to remove dust and debris from between the keycaps.
- **Keycap Removal:** Use the provided keycap puller to carefully remove keycaps for cleaning or switch replacement. Avoid excessive force to prevent damage.
- **Switch Replacement:** The MG68 is hot-swappable, allowing for easy replacement of magnetic switches. Ensure the replacement switches are compatible.
- **Storage:** When not in use for extended periods, store the keyboard in a dry, dust-free environment.



Figure 9: Internal structure of the IROK MG68, illustrating components for maintenance and customization.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Keyboard not responding	Loose USB connection, driver issue, or system conflict.	• Ensure the USB cable is securely connected to both the keyboard and the computer. • Try a different USB port on your computer. • Restart your computer. • Reinstall the keyboard driver from the official IROK website.
Backlighting not working or incorrect	Backlight disabled, incorrect settings, or software conflict.	• Check if the backlight is turned off or set to minimum brightness using keyboard shortcuts. • Verify lighting settings in the IROK driver software. • Ensure no other lighting software is conflicting with the keyboard driver.
Keys double-typing or not registering	Switch malfunction, dust under keycap, or incorrect actuation settings.	• Remove the keycap and clean the switch area with compressed air. • Adjust the actuation point sensitivity in the driver software. • If the issue persists, consider replacing the magnetic switch.

Problem	Possible Cause	Solution
Driver software not installing or detecting keyboard	Corrupted download, firewall blocking, or incompatible operating system.	• Download the driver again from the official IROK website. • Temporarily disable your firewall or antivirus during installation. • Ensure your operating system meets the minimum requirements for the driver.

7. SPECIFICATIONS

Feature	Detail
Model	MG68
Layout	65% TKL (Tenkeyless)
Switch Type	Magnetic Switches (Hot-Swappable)
Body Material	Full Aluminum Alloy
Connectivity	Wired (USB-C)
Latency	As low as 0.125ms
Polling Rate	8000Hz
Actuation Precision	0.01mm
Backlighting	Customizable ARGB (16.8 million colors, 500Hz refresh rate)
Programmable Keys	Yes, via proprietary driver
Compatible Operating Systems	Windows, macOS
Product Dimensions	12.99"L x 4.92"W x 1.97"H
Item Weight	2.2 pounds

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official IROK website or contact their customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

- **Official Website:** www.irok.cc
- **Customer Service:** Refer to the official website for contact details.

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