

IROK Mars75



IROK Mars75 Wired Magnetic Switch Keyboard

USER MANUAL

Introduction

Thank you for choosing the IROK Mars75 Wired Magnetic Switch Keyboard. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new keyboard. Please read these instructions carefully to ensure optimal performance and longevity of your device.



Image: Overview of the IROK Mars75 Wired Magnetic Switch Keyboard.

Setup

Follow these steps to set up your IROK Mars75 keyboard:

1. **Unboxing:** Carefully remove the keyboard, USB-C cable, and keycap puller from the packaging.
2. **Connection:** Connect the provided USB-C cable to the keyboard's USB-C port and the other end to an available USB port on your computer (Laptop, PC).
3. **Driver Installation:** For full functionality and customization, download and install the proprietary Web Driver or One-stop HUB Driver from the official IROK website: www.irok.cc. This software allows for advanced settings, including key remapping, lighting customization, and magnetic switch calibration.
4. **Initial Use:** The keyboard is plug-and-play for basic typing. Once the driver is installed, you can begin customizing your experience.

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



Image: Screenshot of the IROK Web Driver interface, showing key settings and customization options.

Operating Instructions

The IROK Mars75 keyboard features advanced technology for enhanced performance:

- **75% Compact Layout:** This layout integrates essential keys in a smaller footprint, optimizing desktop space while retaining most functionality.
- **Hall Effect & Gasket Structure:** The keyboard combines magnetic sensing Hall Effect switches for rapid, wear-free actuation and customizable travel distances with a Gasket Mount structure. This design suspends the PCB in cushioning material, providing a soft, consistent typing feel and reducing noise.

256KHZ
SINGLE-KEY SCAN RATE

32KHZ All Keys Scan Rate



Image: Exploded view diagram showing the Gasket Structure components, including ABS side-engraved keycaps, purple magnetic switches, sound-absorbing cotton, voice actor protective film, PCB, aluminum alloy positioning plate, PU foam, silicone base pad, and base cover.

- **Advanced Magnetic Switches:** Equipped with the First-generation GTURBO magnetic axis algorithm and a high-speed flagship MCU, the keyboard offers a 256KHz single key scan rate, 8KHz polling rate, and latency as low as 0.08ms. This ensures precise and rapid response for gaming and typing.



Image: Close-up view of the 480MHz Main Control Chip, highlighting its role in enhanced accuracy and stability.

- **0.001MM RT Accuracy:** The Rapid Trigger feature allows for instant key actuation and reset, providing a competitive edge in fast-paced applications.
- **MIX Function for All-key Magnetic Switches:** Switches and keycaps can be freely replaced without soldering, allowing for personalized typing feel and sound.
- **Customizable ARGB Lighting:** The keyboard features independent IC 500Hz high refresh rate ARGB lighting, offering rich color customization options through the proprietary driver.

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Video: A demonstration of the IROK Mars75 Keyboard's customizable RGB lighting effects and clear keycaps.

Maintenance

Proper maintenance ensures the longevity and performance of your keyboard:

- **Cleaning:** Regularly clean the keyboard with a soft, dry cloth. For deeper cleaning, use a keycap puller to remove keycaps and gently brush away dust and debris. Avoid using harsh chemicals or abrasive materials.
- **Keycap and Switch Replacement:** Utilize the included keycap puller to safely remove keycaps. Due to the hot-swappable design, magnetic switches can be replaced without soldering. Ensure proper alignment when reinserting switches and keycaps.
- **Cable Care:** Avoid sharp bends or excessive pulling on the USB-C cable to prevent damage.

Troubleshooting

If you encounter issues with your IROK Mars75 keyboard, refer to the following common solutions:

Problem	Solution
Keyboard not responding	Ensure the USB-C cable is securely connected to both the keyboard and the computer. Try a different USB port or cable.
RGB lighting not working or incorrect	Verify that the IROK proprietary driver is installed and updated. Check lighting settings within the software. Ensure no physical damage to the LEDs.
Keys not actuating correctly or inconsistent response	Open the IROK proprietary driver and perform a magnetic switch calibration. Ensure switches are properly seated. If a specific switch is faulty, it can be replaced due to the hot-swappable design.
Software not detecting keyboard	Restart your computer and keyboard. Reinstall the IROK proprietary driver from www.irok.cc .

Specifications

Feature	Detail
Brand	IROK
Model	Mars75
Layout	75% (84 Keys)
Connectivity	Wired (USB-C)
Switch Type	Magnetic (Hall Effect)
Polling Rate	8KHz
Single Key Scan Rate	256KHz
Latency	As low as 0.08ms
RT Accuracy	0.001MM
Lighting	Customizable ARGB (500Hz Refresh Rate)
Structure	Gasket Mount
Keycaps	ABS Side-engraved
Material	Metal, Plastic
Dimensions (L x W x H)	12.8" x 5.3" x 1.7"
Weight	0.95 Kilograms

Feature	Detail
Included Components	Keycap Puller, USB Cable, User Manual
Compatible Devices	Laptop, PC

Warranty Information

The IROK Mars75 Wired Magnetic Switch Keyboard comes with a **one-year warranty** from the date of purchase. This warranty covers manufacturing defects and workmanship. Please retain your proof of purchase for warranty claims. The warranty does not cover damage caused by misuse, accidents, unauthorized modifications, or normal wear and tear.

Support

For further assistance, driver downloads, or frequently asked questions, please visit the official IROK website:

www.irok.cc

You may also refer to the included user manual for additional details not covered in this document.