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› MAGIC-REFINER X68 HE Wired 60% Hall Effect Gaming Keyboard User Manual

## MAGIC-REFINER X68 HE

# MAGIC-REFINER X68 HE Wired 60% Hall Effect Gaming Keyboard User Manual

Model: X68 HE

### INTRODUCTION

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This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your MAGIC-REFINER X68 HE Wired 60% Hall Effect Rapid Trigger Mechanical RGB Gaming Keyboard. Please read this manual thoroughly to ensure proper use and to maximize your keyboard's performance.



Image: The MAGIC-REFINER X68 HE keyboard, showcasing its compact 60% design and RGB lighting.

## WHAT'S IN THE BOX

- MAGIC-REFINER X68 HE Keyboard (x1)
- Keycap and Switch Puller (x1)
- User Manual (this document)

## SETUP

### 1. Connecting the Keyboard

Connect the provided USB-C cable to the port on the keyboard and the other end to an available USB port on your computer (PC or Mac). The keyboard is plug-and-play and should be recognized automatically by your operating system.

### 2. Web Driver Installation and Calibration

For full customization and optimal performance, it is recommended to use the dedicated web driver. The web driver allows you to adjust actuation points, remap keys, customize RGB lighting, and perform calibration.

- **Accessing the Web Driver:** Open your web browser and navigate to the official web driver link: [bit.ly/X68HEKeyboard](https://bit.ly/X68HEKeyboard).
- **Calibration Steps:**
  1. Open the web driver and select 'X68HE'.
  2. On the driver page, click 'Actuation' then 'Calibration' and 'Start Calibration'.
  3. Once 'Key calibration success' appears, calibration is complete.



Image: An overview of the X68 HE's features, highlighting the web driver for customization and magnetic switches.

## OPERATING INSTRUCTIONS

### 1. Hall Effect Magnetic Switches and Adjustable Actuation

The X68 HE features Hall Effect magnetic switches, allowing for precise and customizable actuation. The actuation

point can be adjusted from 0.1mm to 3.4mm in 0.04mm increments using the web driver. This enables fine-tuning for different tasks, from light touches for gaming to deeper presses for typing.

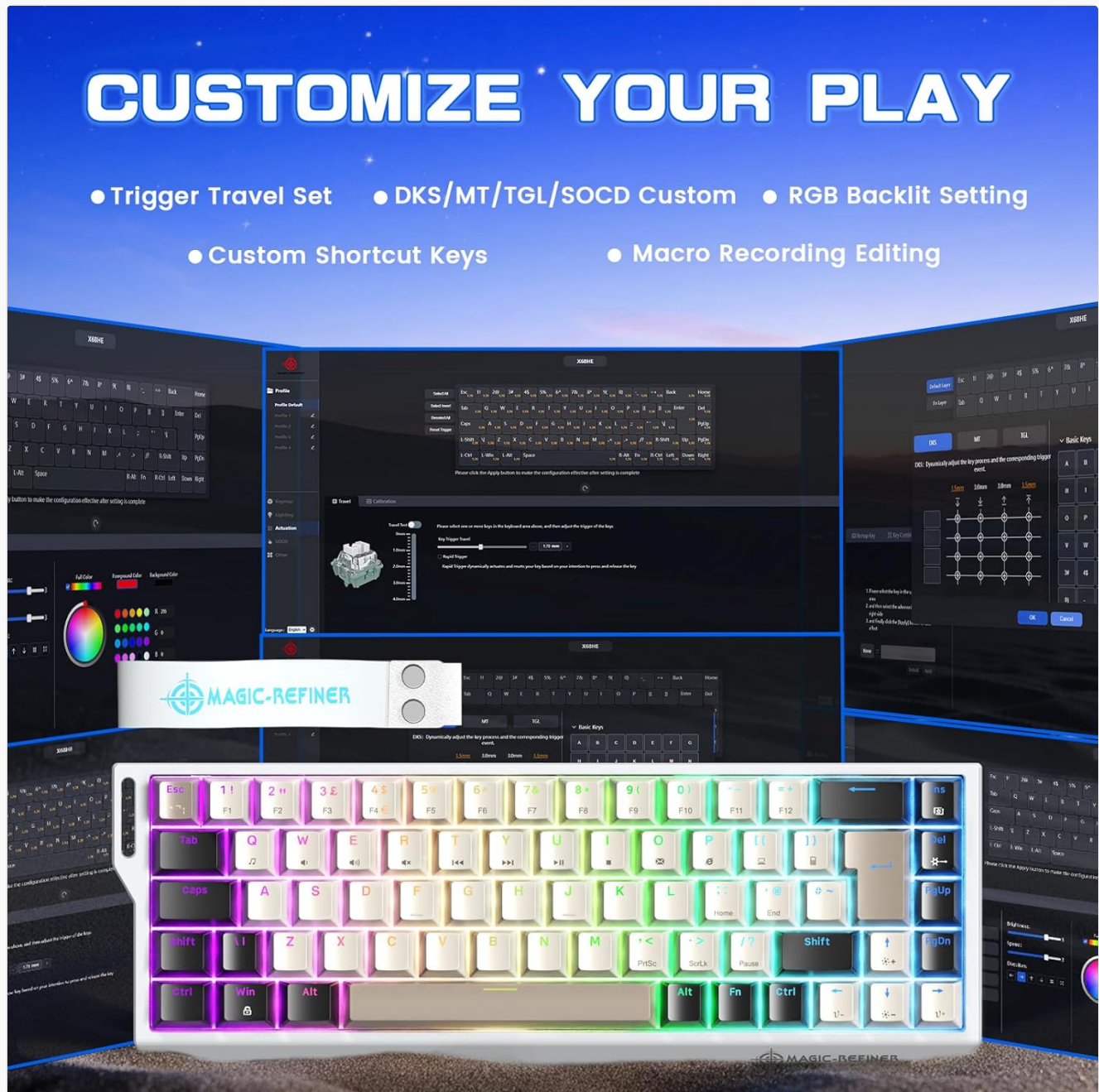


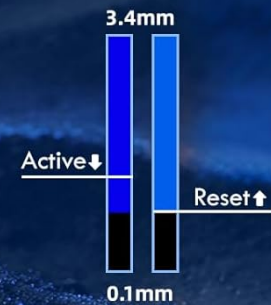
Image: A close-up of a magnetic switch with a diagram illustrating the adjustable actuation range.

## 2. Rapid Trigger Functionality

The rapid trigger feature allows keys to reset instantly upon upward movement, enabling faster repeated inputs. With an RT sensitivity of up to 0.04mm and zero dead zones, this function is particularly beneficial for competitive gaming, ensuring every keystroke is registered with extreme precision.

# HIGH PERFORMANCE MAGNETIC SWITCH

Customized 0.1mm-3.4mm actuation range



**High  
Sensitivity**  
Hall Effect

**0.01mm**  
RT Accuracy

**0.1mm-3.4mm**  
Actuation Range

**8000Hz**  
Polling Rate

Image: Visual representation of the rapid trigger mechanism, highlighting ultra-low latency and high polling rate.

# RAPID TRIGGER KEYBOARD

0.125MS latency & 128KHz Scan Rate

**0.01mm**

RT Accuracy

**8KHz**

Polling Rate

**0.125MS**

Ultra-low latency

**128KHz**

Scan Rate

Image: The keyboard emphasizing its 'Zero Dead Zone' and precise adjustability for key actuation.

### 3. 8000Hz Polling Rate

The X68 HE keyboard features an 8000Hz polling rate, providing a response speed up to 8 times faster than standard mechanical keyboards. This, combined with a 128K scan sampling rate, results in an ultra-low latency of 0.125ms, ensuring immediate command execution.

### 4. RGB Lighting Effects

The keyboard offers 14 preset RGB lighting effects. You can cycle through these effects and adjust brightness and speed using the function (Fn) key combinations:

- **Fn + Ins:** Switch between lighting modes.
- **Fn + Del:** Switch between lighting colors.
- **Fn + ↑ (Up Arrow):** Increase backlight brightness.
- **Fn + ↓ (Down Arrow):** Decrease backlight brightness.
- **Fn + ← (Left Arrow):** Decrease backlight speed.
- **Fn + → (Right Arrow):** Increase backlight speed.

Further customization of RGB lighting is available through the web driver.



Image: The keyboard displaying its vibrant RGB lighting and key combinations for adjusting effects.

### 5. 68-Key UK Layout

The X68 HE features a compact 60% layout with 68 keys, adhering to the UK QWERTY standard. This design saves desk space while retaining essential functionality through function layer access.

# WIRED 60% UK QWERTY LAYOUT

Make more space on your desktop.



Image: The keyboard highlighting its 60% UK QWERTY layout, designed for space efficiency.

## MAINTENANCE

### 1. Cleaning

- Disconnect the keyboard from your computer before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the keycaps and chassis.
- For dust and debris between keys, use compressed air.
- Avoid using harsh chemicals, abrasives, or solvents.

### 2. Switch and Keycap Care

The X68 HE features hot-swappable switches, allowing for easy replacement without soldering. Use the included keycap and switch puller for safe removal and installation.

- To remove a keycap, gently pull it straight up using the keycap puller.

- To remove a switch, use the switch puller to grasp the top and bottom clips of the switch and pull it straight up.
- When installing, ensure the switch pins align correctly with the PCB sockets before pressing down firmly.

## TROUBLESHOOTING

Issue	Possible Cause	Solution
Keyboard not responding	Loose USB connection, faulty cable, driver issue.	Ensure USB-C cable is securely connected. Try a different USB port or cable. Restart your computer. Check device manager for driver status.
Keys not registering or double-typing	Switch malfunction, calibration needed.	Perform a calibration using the web driver. If a specific switch is faulty, replace it (hot-swappable feature).
RGB lighting not working or incorrect	Software setting, incorrect key combination.	Check RGB settings in the web driver. Ensure correct Fn key combinations are used.
Web driver not detecting keyboard	Browser permissions, connection issue.	Ensure your browser has permission to connect to USB devices. Try a different browser. Verify keyboard is connected and recognized by the OS.

## SPECIFICATIONS

- **Model:** X68 HE
- **Layout:** 60% (68-key) UK QWERTY
- **Switch Type:** Hall Effect Magnetic Switches
- **Actuation Point:** Adjustable from 0.1mm to 3.4mm (0.04mm increments)
- **Rapid Trigger (RT) Accuracy:** 0.04mm
- **Polling Rate:** 8000Hz
- **Latency:** 0.125ms
- **Scan Rate:** 128KHz
- **Connectivity:** Wired (USB-C detachable cable)
- **Backlighting:** RGB (14+ effects)
- **Compatible Devices:** PC, Mac
- **Product Dimensions:** 15.74 x 6.02 x 1.89 inches (39.98 x 15.29 x 4.80 cm)
- **Item Weight:** 1.57 pounds (0.71 kg)

## WARRANTY INFORMATION

Please refer to your purchase documentation or the retailer's website for specific warranty terms and conditions. Standard warranty typically covers manufacturing defects for a limited period from the date of purchase.

## SUPPORT

For further assistance, technical support, or inquiries not covered in this manual, please visit the [MAGIC-REFINER](#)

official website or contact your retailer's customer service. Ensure you have your product model (X68 HE) and purchase details available when seeking support.

