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> MCHOSE ACE 68 Magnetic Switch RGB Gaming Keyboard User Manual

ZMX ACE68

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Model: ACE68 | Brand: ZMX

1. INTRODUCTION

The MCHOSE ACE 68 is a high-performance 60% magnetic switch RGB gaming keyboard designed for PC and Mac gamers. It features Hall Effect rapid trigger switches, adjustable actuation, and an 8K Hz polling rate for ultra-low latency and precise control.

Key Features

- **Adjustable Magnetic Switches:** Equipped with high-performance Hall Effect magnetic switches, offering ultra-accurate adjustment in 0.01mm. The adjustable Rapid Trigger (RT) range from 0.01mm to 3.4mm provides control over quick keystrokes or ultra-precise typing.
- **65% Compact Layout & Rapid Trigger:** A 68-key compact keyboard that saves desktop space, featuring adjustable feet for comfortable typing. Experience ultra-fast response times for each key with 0.1ms ultra-low latency, instantly activating and deactivating keys with minimal travel.
- **8K Hz Polling Rate:** Ultra-fast wired connection with an 8000 Hz polling rate increases accuracy and minimizes keyboard input latency for competitive gaming.
- **Web Driver and HUB Driver:** Supports customizable settings via Web+HUB driver, eliminating the need for software downloads. Allows extensive customization of RT adjustment, key combinations, macros, reassign keys, and RGB backlight effects.
- **Personalized RGB Backlit:** Features south-facing backlight and 16.8 million RGB light options to personalize your gaming setup.
- **Designed for PC Games:** Ideal for games requiring timing, precision, and instant action, offering lightning-fast response times at 0.1mm precision.



Figure 1.1: The MCHOSE ACE 68 Magnetic Switch RGB Gaming Keyboard in black, showcasing its compact 68-key layout and vibrant RGB backlighting.

0.1ms E-sports Ultra-low Latency

0.1ms
Ultra-low
latency

0.1ms

128K
Ultra-high
scan rate

128K

8K
Polling rate

8K



Figure 1.2: Visual representation highlighting the keyboard's 0.1ms ultra-low latency, 128K ultra-high scan rate, and 8K polling rate for e-sports performance.

Personalized Ribbon



Figure 1.3: An image emphasizing the high precision of 0.01mm adjustable actuation, crucial for stable and continuous rapid trigger functionality.

Ace 68

Gaming Magnetic Switch Keyboard

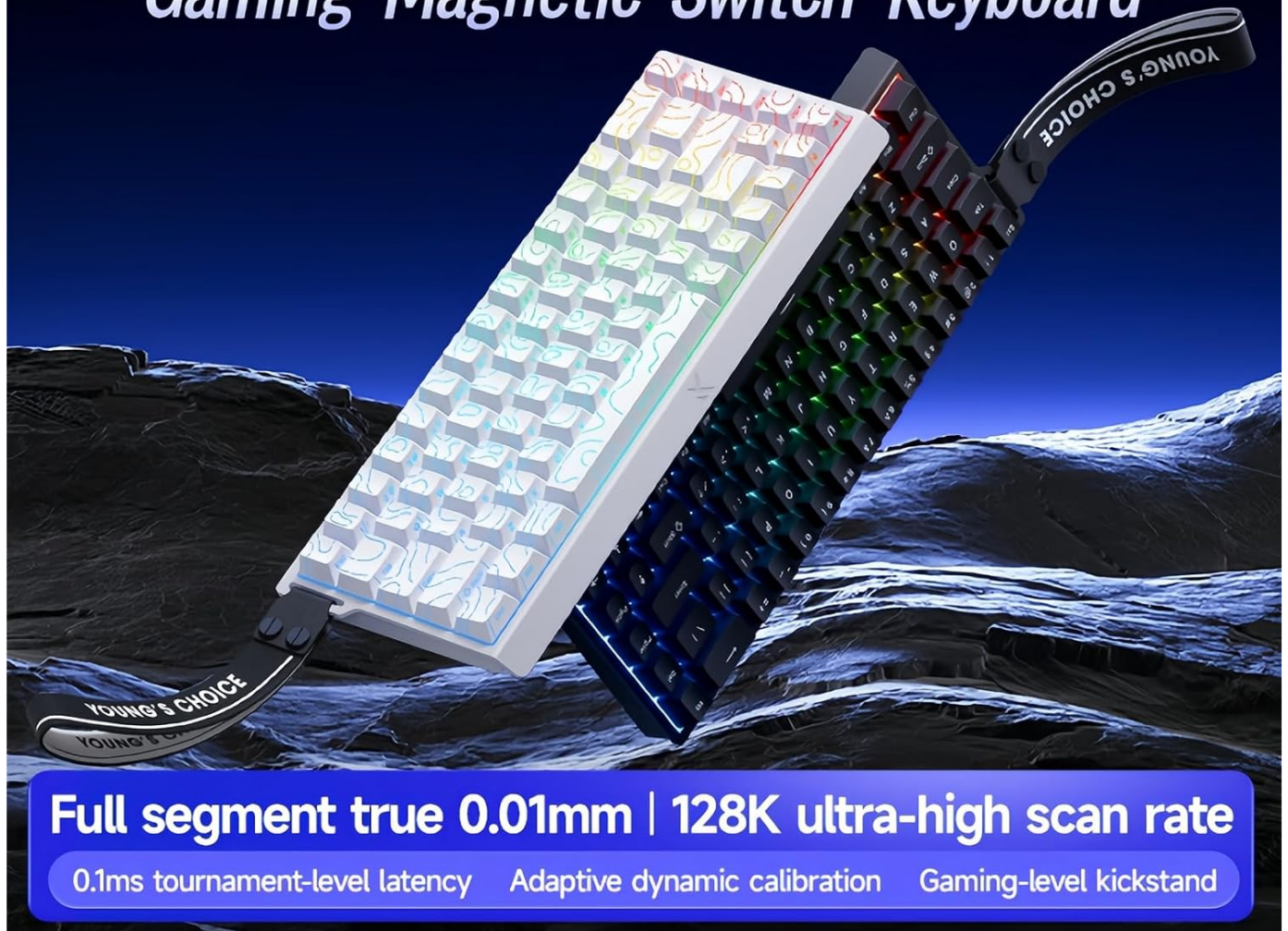


Figure 1.4: A close-up view of the Hall Effect Sensor technology integrated into the keyboard, enabling its advanced magnetic switch capabilities.

2. WHAT'S IN THE BOX

Upon unboxing your MCHOSE ACE 68 keyboard, you should find the following items:

- Ace68 Magnetic Keyboard
- USB Cable
- Keycap Puller
- Extra Switches (TTC Magnetic Switches)
- Keyboard Ribbon

3. SETUP

Setting up your MCHOSE ACE 68 keyboard is straightforward. Follow these steps to get started:

1. **Connect the USB Cable:** Locate the USB-C port on the left side of the keyboard. Connect the provided USB cable to the keyboard and then to an available USB port on your computer (PC or Mac).
2. **Adjust Keyboard Feet:** The keyboard features adjustable feet on the backside. Flip them out to achieve your preferred typing angle for ergonomic comfort.
3. **Driver Installation (Optional):** The MCHOSE ACE 68 supports a Web+HUB driver for extensive customization. No software download is required; simply access the web driver through your browser to configure settings.

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Video 3.1: An official product video demonstrating the MCHOSE ACE 68 keyboard, including its RGB backlighting and compact design. This video provides a visual overview of the keyboard's aesthetics and basic functionality.

4. OPERATING THE KEYBOARD

Key Functions and Layout

The ACE 68 features a 68-key layout, providing a compact form factor while retaining essential keys including arrow keys. Its design is optimized for gaming and general use, offering a comfortable and efficient typing experience.

Customization with Web Driver

The keyboard's advanced features are accessible through its Web+HUB driver. This allows for comprehensive customization without installing any desktop software.

- **Rapid Trigger (RT) Adjustment:** Fine-tune the actuation and release points of each key with precision from 0.01mm to 3.4mm.
- **Key Remapping & Macros:** Reassign key functions, create custom key combinations, and set up complex macros for enhanced productivity and gaming performance.
- **RGB Backlight Effects:** Customize the 16.8 million color RGB backlighting with various effects and patterns to match your setup or mood.
- **Dynamic Key Stroke Technologies:** Utilize advanced features like DKS (Dynamic Keystroke), MT (Macro Trigger), TGL (Toggle), RS (Rapid Stop), and SOCD (Simultaneous Opposite Cardinal Directions) for unique input capabilities.

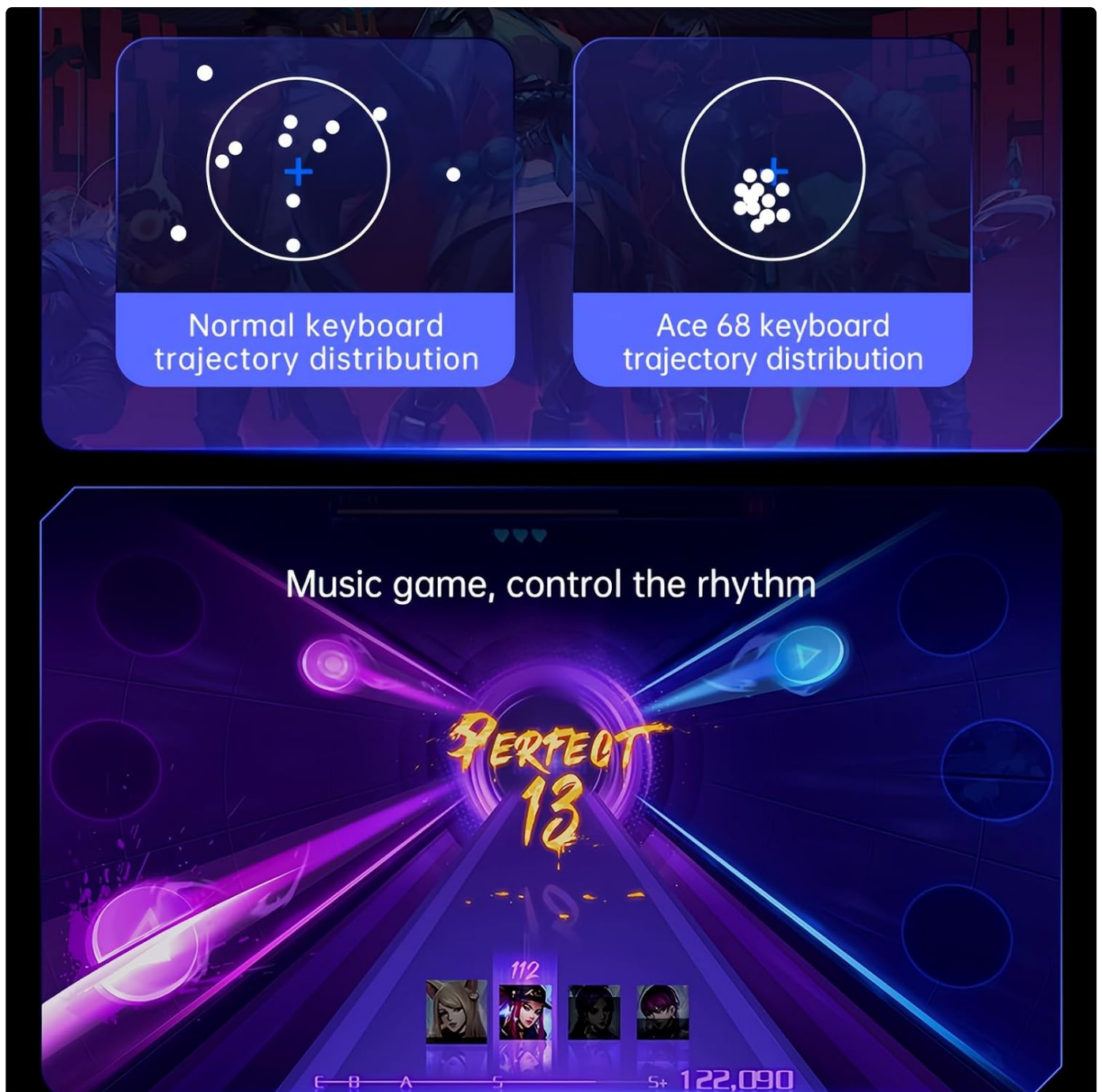


Figure 4.1: An illustration detailing the customized key travel features, including DKS, MT, TGL, RS, and SOCD technologies, which enhance the keyboard's responsiveness and versatility.

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Video 4.2: An official product video showcasing the MCHOSE ACE 68 keyboard's features, highlighting its appeal to gamers. This video provides a dynamic look at the keyboard in action.

Sound Profile

The MCHOSE ACE 68 is designed with internal silicone layers and a metal positioning plate to provide a satisfying sound profile, reducing unwanted resonance and delivering a solid typing feel.

Your browser does not support the video tag.

Video 4.3: An official sound test video for the ZMX MCHOSE ACE68 Magnetic Switch Keyboard, demonstrating its acoustic properties during typing.

5. MAINTENANCE

To ensure the longevity and optimal performance of your MCHOSE ACE 68 keyboard, regular maintenance is recommended:

- **Cleaning:** Use a soft, dry cloth to wipe down the keycaps and keyboard body. For deeper cleaning, you can use a can of compressed air to remove dust and debris from between the keys.
- **Hot-Swappable Switches and Keycaps:** The ACE 68 features hot-swappable magnetic switches, allowing for easy replacement without soldering. Use the included keycap puller to carefully remove keycaps and the switch puller (if provided) to remove switches. This allows for customization or replacement of faulty components.

6. TROUBLESHOOTING

If you encounter any issues with your MCHOSE ACE 68 keyboard, please refer to the following common troubleshooting steps:

- **Keyboard Not Responding:**
 - Ensure the USB cable is securely connected to both the keyboard and your computer.
 - Try connecting the keyboard to a different USB port on your computer.
 - Restart your computer.
- **RGB Lighting Issues:**
 - Check the lighting settings in the Web+HUB driver to ensure RGB is enabled and configured correctly.
 - Ensure the keyboard's firmware is up to date.
- **Keys Not Registering or Double-Typing:**
 - This could indicate a faulty switch. Since the switches are hot-swappable, try replacing the problematic switch with one of the extra switches provided or a new compatible magnetic switch.
 - Check the "Key Repeat Optimization" setting in the Web+HUB driver.
- **Polling Rate Not 8K Hz:**
 - Access the Web+HUB driver and navigate to "Performance Settings". Ensure the polling rate is set to 8K Hz.

If these steps do not resolve your issue, please contact ZMX customer support for further assistance.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	12.6 x 4.6 x 1.5 inches
Item Weight	1.5 pounds

Manufacturer	ZMX
ASIN	B0DX5KS1SN
Country of Origin	China
Item Model Number	ACE68
Date First Available	February 12, 2025
Compatible Devices	Laptop, PC, All Win/Mac Computers
Connectivity Technology	USB-C
Keyboard Description	Magnetic Switch Mechanical Keyboard
Recommended Uses	FPS Games, Multimedia, Everyday Use, Personal, Education, Programming, Photo Editing, Gaming, Business
Special Feature	Adjustable Actuation, Compact 65% Gaming Keyboard, Hot-Swappable Magnetic Switch, Programmable Keys, 8K Polling Rate/128K Scan Rate/0.1ms Low Latency
Color	Black-Blue Ice Magnetic Switch (RGB Backlighting)
Number of Keys	68
Keyboard Backlighting Color Support	RGB
Style	Contemporary

8. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your MCHOSE ACE 68 keyboard, please contact the manufacturer, ZMX, or the seller directly through their official channels. Keep your purchase receipt as proof of purchase for warranty claims.

Visit the [ZMX Store on Amazon](#) for more information and support resources.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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