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> MCHOSE Mix 87 Magnetic Switch Gaming Keyboard User Manual

ZMX Mix 87

MCHOSE Mix 87 Magnetic Switch Gaming Keyboard User Manual

Model: Mix 87 | Brand: ZMX

INTRODUCTION

Welcome to the user manual for your MCHOSE Mix 87 Magnetic Switch Rapid Trigger Gaming Keyboard. This keyboard is designed for high-performance gaming and efficient daily use, featuring Hall effect magnetic switches, adjustable actuation, and a compact TKL layout. This manual provides essential information for setting up, operating, maintaining, and troubleshooting your new keyboard.



Image: The MCHOSE Mix 87 Magnetic Switch Gaming Keyboard in white, showcasing its 87-key layout and clean design.

WHAT'S IN THE BOX

Upon unboxing your MCHOSE Mix 87 keyboard, please ensure all the following items are present:

- MCHOSE Mix 87 Gaming Keyboard
- USB Cable (Type-C)

- Keycap Puller
- User Manual (this document)
- Extra Switches (2 pieces)

SETUP GUIDE

Follow these steps to set up your MCHOSE Mix 87 keyboard:

1. **Unpack:** Carefully remove the keyboard and all accessories from the packaging.
2. **Connect:** Locate the USB-C port on the keyboard and connect one end of the provided USB cable. Connect the other end of the USB cable to an available USB port on your computer (PC or Mac).
3. **Driver Installation (Optional):** The keyboard is plug-and-play. For advanced customization and features, access the programmable web driver. No software download is required; simply visit the official MCHOSE HUB driver website.
4. **Placement:** Position the keyboard comfortably on your desk.
5. **Initial Test:** Open a text editor or any application and type to ensure the keyboard is recognized and functioning correctly.

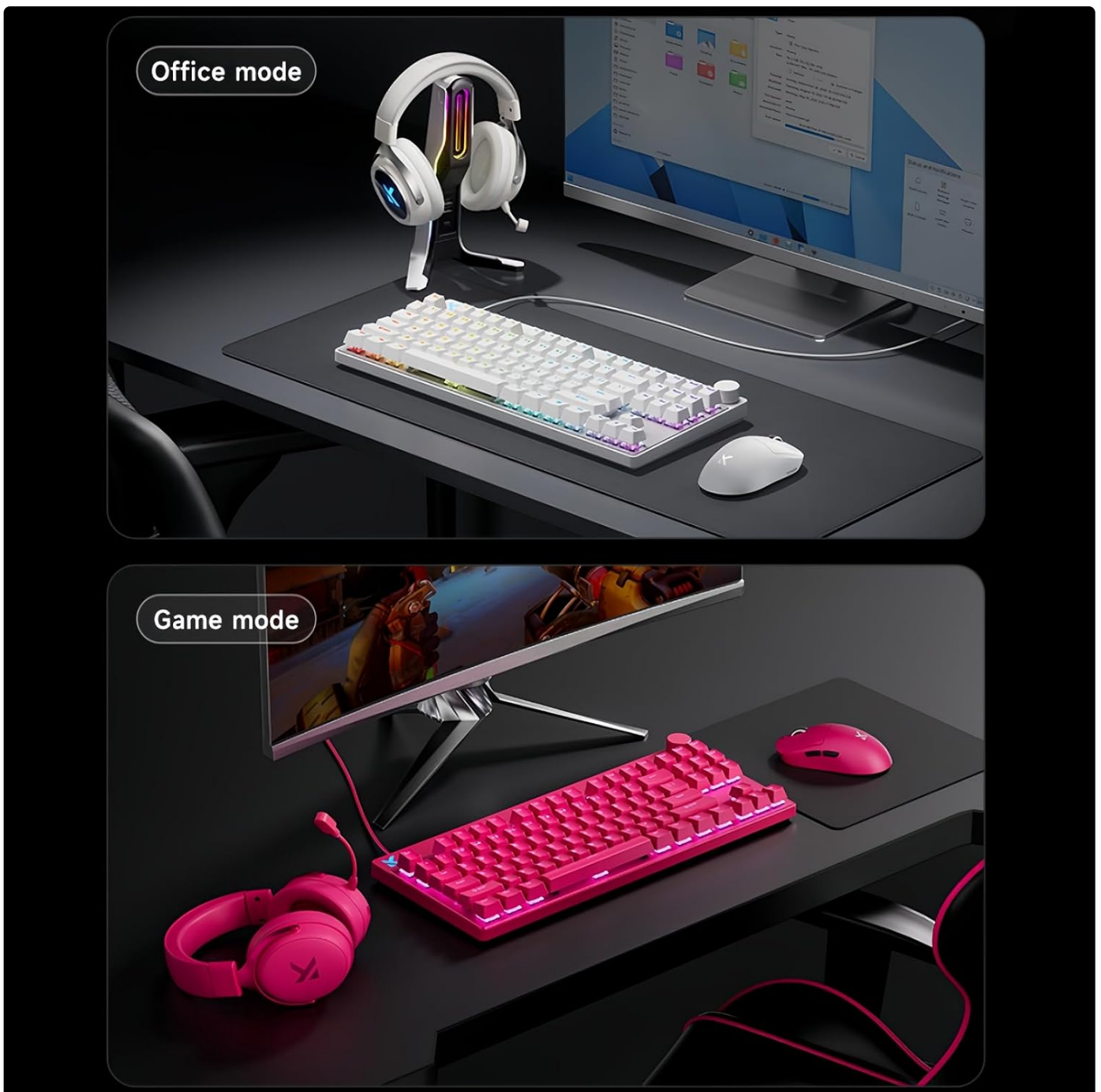


Image: The MCHOSE Mix 87 keyboard shown in both an office setup (white keyboard) and a gaming setup (pink keyboard), demonstrating its versatility.

OPERATING INSTRUCTIONS

The MCHOSE Mix 87 keyboard offers a range of features for enhanced gaming and productivity.

Key Features:

- **Magnetic Switches & Adjustable Actuation:** Equipped with Hall effect Apollo magnetic switches, allowing for ultra-precise 0.001 mm adjustment. The trigger point is adjustable from 0.01-3.4 mm, providing customizable keystroke sensitivity.
- **Rapid Trigger (RT) Mode:** Supports rapid trigger functionality, enabling keys to reset instantly upon release, crucial for competitive gaming. The RT Smart Mode offers 1-15 levels of adjustment.
- **Ultra-Low Latency & High Polling Rate:** Features a 256K ultra-high scan rate and 0.08ms low latency, combined with an 8000 Hz polling rate for minimal input delay.
- **Multi-Function Knob:** The integrated knob allows for easy volume adjustment. Pressing the knob mutes/unmutes audio.
- **Dedicated Function Keys:** Includes three practical function keys for quick access to desktop, mode switching, and light brightness adjustment.
- **RGB Backlighting:** Features 16 million colors with north-facing LEDs. Customize lighting effects, brightness, and support music rhythm via FN shortcut keys or the web driver.
- **NKRO (N-Key Rollover):** Supports full N-Key Rollover, ensuring every keypress is registered accurately, even during simultaneous presses.

Function Key Combinations (FN):

Use the **FN** key in combination with other keys to access various functions. Specific combinations can be found in the web driver interface for full customization.

Super multifunctional do with ease



Multi-Function Buttons Multiple modes



One click return
desktop
(Customizable)



one-touch
switch
(configuration)



Light
brightness



Volume function knob



turn left and right
Volume level



Press mute button



Image: Close-up of the MCHOSE Mix 87 keyboard highlighting the multi-function buttons (G1, RT, Light Brightness) and the volume control knob with mute function.

Good looking and fun Outstanding style

Suspension design
practical aesthetics



Low front high

easy to clean

ARGB Colorful Lights

Customize GIF lighting effects



Fully self-developed 8 major music genres
Rhythm light effect 2.0



Image: The MCHOSE Mix 87 keyboard showcasing its RGB lighting effects and highlighting features like suspension design, easy cleaning, and customizable lighting effects.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your keyboard.

- **Regular Cleaning:** Use a soft brush or compressed air to remove dust and debris from between the keycaps.
- **Keycap Cleaning:** For deeper cleaning, use the provided keycap puller to carefully remove keycaps. Clean them with a mild soap solution and a soft cloth, then ensure they are completely dry before reattaching.
- **Surface Cleaning:** Wipe the keyboard surface with a slightly damp, lint-free cloth. Avoid harsh chemicals or abrasive materials.
- **Spill Prevention:** Keep liquids away from the keyboard to prevent damage to internal components.
- **Storage:** When not in use for extended periods, store the keyboard in a clean, dry environment.

TROUBLESHOOTING

If you encounter issues with your MCHOSE Mix 87 keyboard, refer to the following common problems and solutions:

Problem	Solution
Keyboard not responding	<ul style="list-style-type: none">◦ Ensure the USB cable is securely connected to both the keyboard and the computer.◦ Try connecting the keyboard to a different USB port on your computer.◦ Test the keyboard on another computer to rule out system-specific issues.◦ Restart your computer.
RGB lighting not working or incorrect	<ul style="list-style-type: none">◦ Check FN key combinations for lighting control (e.g., brightness, modes).◦ Access the web driver to verify lighting settings and apply desired effects.◦ Ensure the keyboard firmware is up to date via the web driver.
Keys not registering or double-typing	<ul style="list-style-type: none">◦ Clean around the affected key to remove any debris.◦ If a specific switch is faulty, use the provided extra switches to replace it (requires careful handling).◦ Check the actuation point settings in the web driver; adjust if set too low or too high for your preference.
Rapid Trigger (RT) not functioning as expected	<ul style="list-style-type: none">◦ Ensure RT mode is enabled and configured correctly in the web driver.◦ Adjust the RT Smart Mode level (1-15) to find your preferred sensitivity.◦ Verify that the keyboard firmware is the latest version.

SPECIFICATIONS

Detailed technical specifications for the MCHOSE Mix 87 Gaming Keyboard:

Feature	Detail
Model Name	Mix 87 Keyboard
Connection Type	USB-C Wired
Number of Keys	87 keys (TKL Layout)
Switch Type	Hall Effect Apollo Magnetic Switches
Adjustable Actuation Point	0.01-3.4 mm
Sensitivity Reset Function	Supported
Delay Rate	0.08ms
Scan Rate	256K
Polling Rate	8K Hz

Feature	Detail
RGB Backlight	16 million colors, North-facing LEDs
Special Functions	SOCD, RS, DKS, MT, TGL, Macro, RT Smart Mode (1-15 levels)
NKRO	Supported
Structure	Gasket Mount Keyboard
System Compatibility	Windows, Mac, iOS, Android
Product Dimensions	14.1 x 6 x 1.4 inches
Item Weight	2 pounds
Manufacturer	MCHOSE

MCHOSE | GATERON

Joint research and development Apollo magnetic axis

3.0mm short stroke,
faster triggering

3.0±0.2mm

Full stroke

35±10gf

Initial triggering force

100 million ^{times}

Service life

KTEK MAX Magnetic axis

Super stable and smooth Q-bounce follower



3.4±0.2mm

Full stroke

32±10gf

Trigger Force

100 million ^{times}

service life

lightning magnetic axis

Short travel, fast triggering, fast rebound



3.5±0.1mm

Full stroke

40±5gf

Trigger Force

100 million ^{times}

service life

Image: Diagram illustrating the MCHOSE | Gateron Joint Research and Development Apollo magnetic axis, detailing its 3.0mm short stroke, $35\pm 10\text{gf}$ initial triggering force, and 100 million service life. Also compares with KTEK MAX and lightning magnetic axis.

MCHOSE

MIX 87

The first 87 series
Multifunctional magnetic
axis keyboard

0.001mm | 0.08ms Event-level delay | RT Smart | ADC direct connection



Image: The MCHOSE Mix 87 keyboard displayed in three different colors (pink, white, black), highlighting its multifunctional magnetic axis and key features like 0.001mm precision and RT Smart.

Strong performance

0.001mm



256K

Ultra high scanning rate

0.08ms

Event level ultra-low latency

8K

Ultra high polling rate

New
magnetic axis
Algorithm 3.0

3.0

New
RT Smart

15 levels adjustable,
Release higher performance



New
ADC Direct Link

WASD key direct connection



Image: Visual representation of the MCHOSE Mix 87 keyboard's strong performance metrics: 0.001mm precision, 256K ultra-high scanning rate, 0.08ms event-level ultra-low latency, and 8K ultra-high polling rate. Also shows magnetic axis Algorithm 3.0, RT Smart (15 levels adjustable), and ADC Direct Link.

WARRANTY AND SUPPORT

Your MCHOSE Mix 87 keyboard comes with a standard manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and duration, please refer to the warranty card included with your product or contact the seller directly. For technical support, troubleshooting assistance, or warranty claims, please contact the seller, ZMX-MALL, through the platform where you purchased the product. You may also visit the official ZMX brand store on Amazon for additional resources and contact information: [ZMX Store](#).

