

## ATTACK SHARK X60 HE

# ATTACK SHARK MAMBASNAKE X60 HE Gaming Keyboard User Manual

Model: X60 HE

## INTRODUCTION

The ATTACK SHARK MAMBASNAKE X60 HE is a 60% RGB wireless mechanical gaming keyboard featuring Hall Effect magnetic switches. It offers rapid trigger technology, adjustable actuation points, and multiple connectivity options for a versatile gaming and typing experience. This manual provides detailed instructions for setup, operation, and maintenance of your keyboard.

## KEY FEATURES

- **60% ANSI Layout:** Compact design with 61 keys to optimize workspace.
- **Hall Effect Magnetic Switches:** Provides 0.01mm RT accuracy and 0.1ms latency.
- **Rapid Trigger & Adjustable Actuation:** Customize key sensitivity from 0.1mm to 3.4mm.
- **Triple Mode Connection:** Supports Wired (USB-C), 2.4GHz Wireless, and Bluetooth (up to 3 devices).
- **High Polling Rate:** 8000Hz wired polling rate and 1000Hz wireless polling rate for competitive gaming.
- **Web Driver Customization:** Redefine key combos, macros, RGB lighting, DKS, MT, TGL, and Snap Key settings via a web-based driver.
- **Durable Build:** Features a metal positioning plate, double PO cotton, and thick silicone bottom to offer a stable and responsive typing experience.
- **4000mAh Battery:** High-capacity battery for extended wireless use with a battery check function.
- **RGB Backlighting:** 16.8 million colors with 21 backlit modes and 9 light colors, featuring side-printed PBT keycaps and south-facing LEDs.

## PACKAGE CONTENTS

Please check the package for the following items:

- ATTACK SHARK MAMBASNAKE X60 HE Mechanical Gaming Keyboard
- USB-C to USB-A Braided Cable

- 2.4GHz USB Receiver
- Keycap / Switch Pulling Tool
- Clear Dust Cover
- Instruction Manual (this document)

## SETUP

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### Initial Connection

The X60 HE keyboard supports three connection modes: Wired, 2.4GHz Wireless, and Bluetooth.

#### Wired Mode (USB-C)

1. Connect the provided USB-C cable to the keyboard's USB-C port.
2. Connect the other end of the cable (USB-A) to an available USB port on your computer.
3. The keyboard will be automatically recognized and ready for use. In wired mode, the polling rate is 8000Hz.

#### 2.4GHz Wireless Mode

1. Locate the 2.4GHz USB receiver.
2. Plug the USB receiver into an available USB port on your computer.
3. Ensure the keyboard is powered on and in 2.4GHz wireless mode (refer to the "Switching Connection Modes" section).
4. The keyboard should connect automatically. In 2.4GHz wireless mode, the polling rate is 1000Hz.

#### Bluetooth Mode

1. Ensure the keyboard is powered on and in Bluetooth mode (refer to the "Switching Connection Modes" section).
2. On your computer or device, open Bluetooth settings and search for new devices.
3. Select "ATTACK SHARK X60 HE" (or similar) from the list of available devices to pair.
4. The keyboard can store up to 3 Bluetooth device pairings. In Bluetooth mode, the polling rate is 1000Hz.

### Switching Connection Modes

Use the switch located on the keyboard to toggle between Wired, 2.4GHz Wireless, and Bluetooth modes.

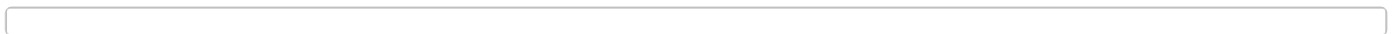


Image: Triple Mode Connection and 4000mAh Battery. This image illustrates the three connection types: wired, Bluetooth, and 2.4G wireless, along with the keyboard's 4000mAh battery capacity.



Image: Tri-Mode Connection. This image highlights the three available connection methods for the keyboard: Bluetooth, Type-C Wired, and 2.4G Wireless.

## OPERATING INSTRUCTIONS

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### Rapid Trigger and Adjustable Actuation

The X60 HE features Hall Effect magnetic switches with Rapid Trigger technology and adjustable actuation points, allowing for precise control over keypress sensitivity.

- **0.01mm RT Accuracy:** Eliminates physical input delay for faster response times.
- **Adjustable Actuation:** Customize the actuation point from 0.1mm to 3.4mm to match your preference for gaming or typing.




Image: 0.01mm RT Accuracy & 128kHz Scan Rate. This image demonstrates the keyboard's high precision and scan rate in various gaming contexts, highlighting its speed and responsiveness.




Image: Adjustable Actuation Point. This diagram illustrates the magnetic switch mechanism, detailing the adjustable actuation range (0.1-3.4mm), lifespan, and magnetic force specifications.



Image: 0.01mm RT Accuracy. A close-up view of the keyboard switches emphasizing the 0.01mm Rapid Trigger accuracy for enhanced speed and response.

## Web Driver Customization

The X60 HE keyboard offers extensive customization through its web-based driver. Access the software at [tmk.top](https://tmk.top).

- **Key Remapping:** Reassign keys to suit your workflow or gaming style.
- **Macros:** Create complex command sequences for single-key execution.
- **RGB Lighting:** Customize lighting effects, colors, and patterns.
- **Advanced Features:** Configure DKS (Dynamic Keystroke), MT (Mod-Tap), TGL (Toggle), and Snap Key settings for personalized control.




Image: Customize Your Play with Web Driver. This image displays the web driver interface, illustrating the various customization options available for key remapping, macros, and advanced settings.




Image: Web Driver Features. This image shows the web driver interface on a laptop, highlighting features like DKS, Snap Tap, Zero Deadzone, MT, and TGL for comprehensive customization.

## RGB Lighting

The keyboard features a rich spectrum of 16.8 million colors with 21 backlit modes and 9 light colors. The side-printed PBT keycaps and south-facing LEDs enhance the visual experience.



Image: Full RGB Lighting. This image showcases the keyboard's vibrant RGB lighting, featuring over 20 preset effects and a music rhythm function.

## Battery Management

The keyboard is equipped with a 4000mAh battery.

- **Low Battery Indicator:** The space bar will flash when the battery is low.
- **Check Battery Level:** Press **FN + Right Ctrl** to check the current battery level.
- **Smart Sleep Mode:** The keyboard enters a smart sleep mode to conserve power. The sleep time can be adjusted via the web driver.



Image: 4000mAh Rechargeable Battery. This image displays the underside of the keyboard, highlighting its integrated 4000mAh rechargeable battery.

## MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the keyboard surface. For deeper cleaning, use the provided dust cover to prevent dust accumulation.
- **Keycap Removal:** Use the included keycap puller to carefully remove keycaps for cleaning or replacement.

- **Switch Replacement:** The keyboard supports hot-swappable switches. Use the included switch puller to remove and replace switches if needed.
- **Charging:** Charge the keyboard using the provided USB-C cable connected to a standard USB power source.

Image: X60 HE Expanded View. This diagram provides an exploded view of the keyboard, illustrating its internal layers including PBT keycaps, aluminum alloy plate, magnetic switches, PORON foam, PCB, case, and battery.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Keyboard not responding in wireless mode.	Low battery, incorrect mode selected, receiver not connected, or interference.	<ul style="list-style-type: none"><li>• Charge the keyboard.</li><li>• Ensure the keyboard is switched to 2.4GHz or Bluetooth mode.</li><li>• Verify the 2.4GHz receiver is securely plugged into a USB port.</li><li>• Reconnect Bluetooth device.</li><li>• Move closer to the receiver or device.</li></ul>
Keys are not registering or double-typing.	Dust/debris under keycap, switch malfunction, or incorrect actuation settings.	<ul style="list-style-type: none"><li>• Remove keycap and clean the switch area.</li><li>• If a switch is faulty, replace it (hot-swappable design).</li><li>• Check actuation settings in the web driver; reset to default if necessary.</li></ul>
RGB lighting not working or incorrect.	Lighting settings misconfigured or software glitch.	<ul style="list-style-type: none"><li>• Adjust RGB settings using the web driver.</li><li>• Ensure keyboard firmware is up to date.</li></ul>
Web driver not detecting the keyboard.	Keyboard not in wired mode or driver not properly loaded.	<ul style="list-style-type: none"><li>• Connect the keyboard via USB-C cable.</li><li>• Ensure your browser is compatible and refresh the web driver page.</li></ul>

## SPECIFICATIONS

Feature	Detail
Model	X60 HE
Layout	60% ANSI (61 keys)
Switch Type	Hall Effect Magnetic Switches
Actuation Point	Adjustable (0.1mm - 3.4mm)
Rapid Trigger Accuracy	0.01mm
Connectivity	USB-C Wired, 2.4GHz Wireless, Bluetooth (up to 3 devices)

Feature	Detail
Wired Polling Rate	8000Hz
Wireless Polling Rate	1000Hz
Battery Capacity	4000mAh
Backlighting	RGB (16.8 million colors, 21 modes, 9 light colors)
Keycaps	Side-printed PBT
Compatible Devices	PC, Mac, Laptop
Dimensions	11.5 inches (W) x 4.5 inches (D) x 1.5 inches (H) (approximate, based on review)
Item Weight	2.02 pounds



Image: 8K Hz Polling Rate. This image highlights the keyboard's 8K Hz polling rate, indicating a response time of up to 0.125ms in wired mode.

## OFFICIAL PRODUCT VIDEO

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Video: ATTACK SHARK MAMBASNAKE X60 HE RT Mechanical Gaming Keyboard Overview. This video provides a visual overview of the keyboard's features, including its magnetic switches, rapid trigger technology, and customizable options.

## WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official ATTACK SHARK website or contact your retailer. Keep your purchase receipt for warranty claims.  
Manufacturer: ATTACK SHARK

