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BRIMFORD Numeric Mechanical Keypad

BRIMFORD Numeric Mechanical Keypad User Manual

MODEL: NUMERIC MECHANICAL KEYPAD

Brand: BRIMFORD

1. INTRODUCTION

Thank you for choosing the BRIMFORD Numeric Mechanical Keypad. This one-handed keyboard is designed for enhanced gaming and productivity, featuring fully programmable keys and knobs, a responsive joystick, and customizable RGB lighting. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to ensure optimal performance and user experience.



Image 1.1: The BRIMFORD Numeric Mechanical Keypad, Khaki variant, showcasing its compact design with a numeric layout, function keys, and a right-side joystick.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Fully Programmable Keys & Knobs:** All keys and the rocker knob can be customized for various functions, macros, or shortcuts.
- **Rocker Knob & Joystick Design:** Features a left-rotary knob and a right joystick supporting directional inputs (up, down, right, left) and a press function.
- **Hot-Swappable Keys:** Supports multiple switch types, allowing users to change switches and keycaps for personalized feel and aesthetics.
- **17 Programmable Macro Keys:** Assign single or multiple keystrokes to any macro key for quick execution of complex commands.

- **Customizable RGB Backlighting:** Offers 12 selectable RGB backlit modes with 16.8 million colors for personalized lighting effects.
- **Flushless Design:** Ensures millisecond response for all keys, preventing input overwrites during rapid key presses.
- **Key Cable Separation:** Type-C interface with detachable cable for portability and versatility.

2.2 Components

The BRIMFORD Numeric Mechanical Keypad consists of several modular components, allowing for customization and easy maintenance.

PRODUCT STRUCTURE



Product Mix

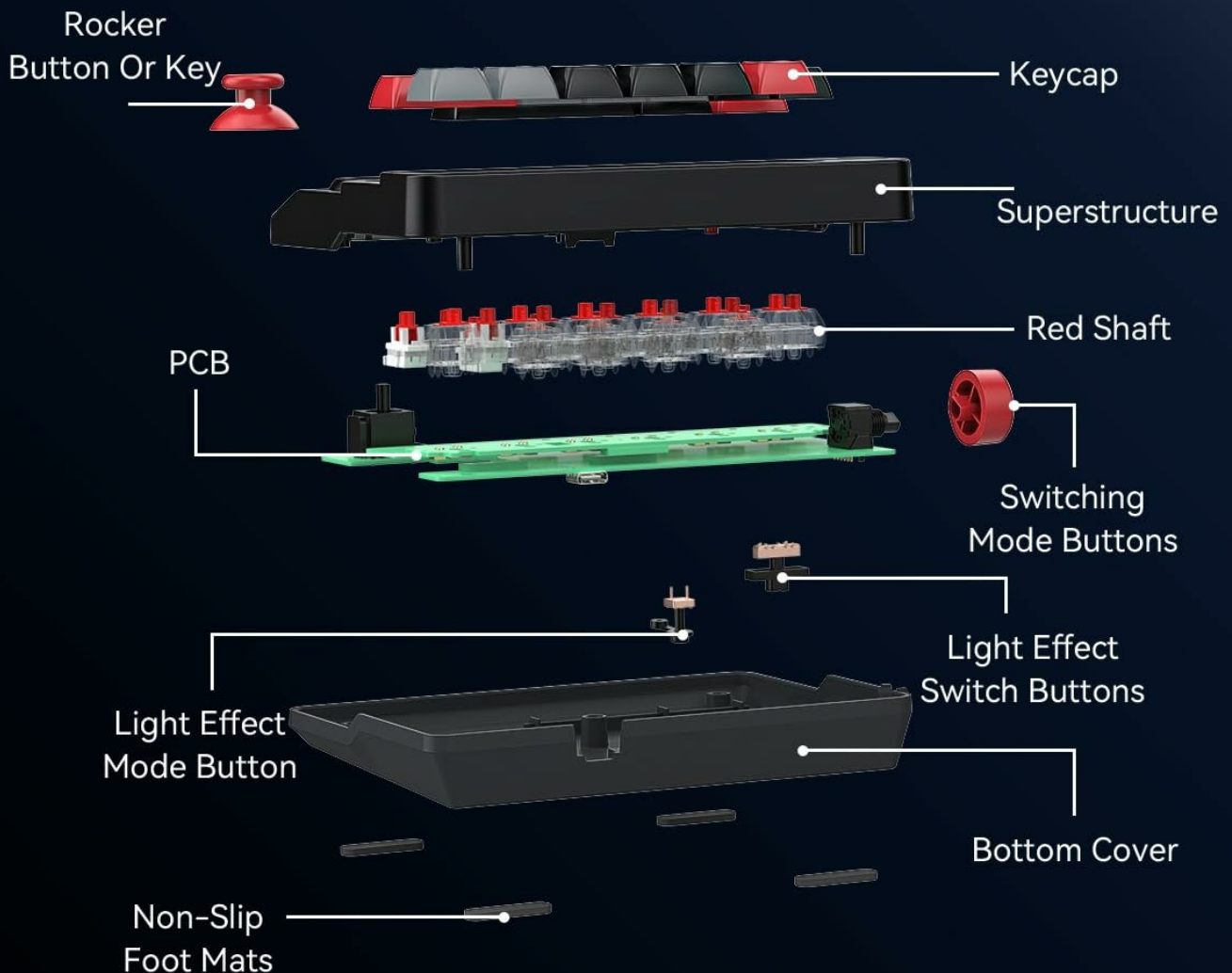


Image 2.1: Exploded view illustrating the keypad's internal structure, including the Keycap, Rocker Button/Key, Superstructure, PCB, Red Shaft (switch), Switching Mode Buttons, Light Effect Switch Buttons, Bottom Cover, and Non-Slip Foot Mats.

- **Keycaps:** Removable covers for the switches.
- **Rocker Button/Key:** The rotary knob component.
- **Superstructure:** The top casing of the keypad.
- **PCB (Printed Circuit Board):** The main electronic board.
- **Red Shaft (Switches):** The mechanical switches beneath the keycaps.

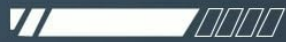
- **Switching Mode Buttons:** Buttons for changing operational modes.
- **Light Effect Switch Buttons:** Buttons for controlling RGB lighting.
- **Bottom Cover:** The base of the keypad.
- **Non-Slip Foot Mats:** Rubber feet to prevent movement during use.

3. SETUP

3.1 Connecting the Keypad

1. Locate the USB Type-C port on the BRIMFORD Numeric Mechanical Keypad.
2. Connect one end of the provided USB Type-C cable to the keypad's port.
3. Connect the other end of the USB cable to an available USB port on your computer or device.
4. The keypad will be automatically recognized by your operating system. No additional drivers are typically required for basic functionality.

KEYLINE SEPARATION



Key Cable Separation Design

Portable Operation

Type-C Interface key and cable separation design easy to carry high versatility



Image 3.1: The keypad demonstrating its detachable Type-C cable, highlighting the ease of connection and portability.

4. OPERATING INSTRUCTIONS

4.1 Programmable Keys and Knobs

The BRIMFORD Numeric Mechanical Keypad allows for extensive customization of all its keys and the rocker knob. This functionality is typically managed through dedicated software provided by BRIMFORD (refer to the official BRIMFORD

website for software downloads).

- **Key Reassignment:** Each key can be assigned a single keystroke, a combination of keys, or a specific function.
- **Rocker Knob Functions:** The rotary knob can be programmed for actions such as volume control, scrolling, zooming, or other custom commands.

4.2 Rocker Knob and Joystick Operation

The keypad features a versatile rocker knob and a joystick for intuitive control.



Image 4.1: The joystick on the right side of the keypad, indicating its directional capabilities (Up, Down, Right, Left) and a central press function.

- **Joystick:** The right-side joystick supports five distinct inputs: Up, Down, Right, Left, and a central press. These inputs can be programmed for in-game movement, navigation, or other custom actions.
- **Left Rotary Knob:** This knob can be rotated left or right, and often includes a press function. Its actions are fully programmable via software.

4.3 RGB Backlighting

The keypad features customizable RGB backlighting with 12 selectable modes and 16.8 million colors.

RGB LIGHT



RGB Spectral Light

Light Up Your Desktop

12 Kinds of colorful light effect free switching between light and shadow flow the sense of extraordinary tide



Image 4.2: The keypad illuminated with RGB spectral lighting, showcasing various color effects.

- **Changing Modes:** Use the dedicated 'Light Effect Switch Buttons' (refer to Image 2.1) or the software to cycle through the 12 available RGB lighting modes.
- **Adjusting Brightness/Speed:** Specific key combinations or software controls allow for adjusting the brightness and speed of the lighting effects.

4.4 Macro Programming

The keypad supports 17 programmable macro keys, enabling users to bind multiple commands to a single key.



Image 4.3: An illustration of the macro programming interface, demonstrating how to assign key functions, adjust lights, and control volume.

1. **Install Software:** Download and install the BRIMFORD programming software from the official website.
2. **Select Key:** Open the software and select the key you wish to program.
3. **Record Macro:** Use the macro recording function to input a sequence of keystrokes, mouse clicks, or delays.
4. **Assign Macro:** Save the recorded macro and assign it to the selected key.

5. **Apply Changes:** Apply the changes to the keypad. The macro will now execute when the assigned key is pressed.

5. HOT-SWAPPABLE KEYS

The BRIMFORD Numeric Mechanical Keypad features hot-swappable switches, allowing users to easily change switch types without soldering.



Image 5.1: The keypad with several keycaps removed, revealing the hot-swappable mechanical switches underneath, ready for

5.1 Changing Switches

1. **Power Off:** Disconnect the keypad from your computer to prevent accidental inputs or damage.
2. **Remove Keycap:** Use a keycap puller tool to gently remove the desired keycap.
3. **Remove Switch:** Use a switch puller tool to carefully grip the switch and pull it straight up and out of the PCB.
4. **Insert New Switch:** Align the pins of the new switch with the holes on the PCB. Gently press the switch down until it clicks into place. Ensure the pins are not bent.
5. **Replace Keycap:** Place the keycap onto the new switch and press down firmly.
6. **Test:** Reconnect the keypad and test the new switch functionality.

6. MAINTENANCE

6.1 Cleaning the Keypad

- **Disconnect:** Always disconnect the keypad from your computer before cleaning.
- **Dust Removal:** Use a can of compressed air to blow away dust and debris from between the keycaps.
- **Surface Cleaning:** Wipe the surface of the keypad and keycaps with a soft, slightly damp, lint-free cloth. Avoid using harsh chemicals or abrasive materials.
- **Deep Cleaning (Optional):** For thorough cleaning, keycaps can be removed (refer to Section 5.1) and washed with mild soap and water. Ensure they are completely dry before reattaching.

6.2 Storage

Store the keypad in a cool, dry place away from direct sunlight and extreme temperatures when not in use for extended periods.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Keypad not responding	Loose cable connection, faulty USB port, software conflict.	Ensure USB cable is securely connected. Try a different USB port. Restart your computer. Check for driver updates.
RGB lighting not working	Lighting mode off, software issue.	Press the 'Light Effect Switch Buttons' to cycle through modes. Check BRIMFORD software settings.
Macro not executing	Incorrect macro programming, software not running.	Verify macro settings in the BRIMFORD software. Ensure the software is running in the background if required for complex macros.
Specific key not working	Faulty switch, debris under keycap.	Remove keycap and switch (Section 5.1) to check for debris. If issue persists, replace the switch.

8. SPECIFICATIONS

- **Model:** Numeric Mechanical Keypad

- **Brand:** BRIMFORD
- **Connectivity:** Wired USB Type-C
- **Key Type:** Mechanical, Hot-Swappable
- **Programmable Keys:** All keys and knobs
- **Macro Keys:** 17
- **Backlighting:** RGB, 12 modes, 16.8 million colors
- **Joystick:** 5-way directional with press function
- **Dimensions:** Approximately 5 x 3 x 3 inches (Package Dimensions)
- **Weight:** Approximately 0.32 ounces (Item Weight)
- **First Available Date:** June 26, 2024

9. WARRANTY AND SUPPORT

BRIMFORD products are manufactured to high-quality standards. For warranty information, technical support, or to download the latest software and drivers, please visit the official BRIMFORD website or contact customer service through your retailer.

Please retain your proof of purchase for warranty claims.