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SKYLOONG GK61

SKYLOONG GK61/SK61 Mechanical Gaming Keyboard User Manual

Comprehensive guide for your SKYLOONG 60% Mechanical Gaming Keyboard.

1. INTRODUCTION

The SKYLOONG GK61/SK61 is a compact 60% mechanical gaming keyboard designed for performance and customization. Featuring 61 keys, RGB illumination, and Gateron Optical Brown Switches, it offers a responsive and tactile typing experience. This keyboard is wired, programmable, and built with durability in mind, including waterproof capabilities.



Figure 1: Overview of the SKYLOONG GK61/SK61 Mechanical Gaming Keyboard with its vibrant RGB backlighting.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- SKYLOONG GK61/SK61 Mechanical Gaming Keyboard
- USB Type-C Cable
- Keycap Puller
- Switch Puller
- User Manual (this document)



Figure 2: Contents typically found in the SKYLOONG GK61/SK61 keyboard retail box, showing the keyboard, USB cable, and included tools.

3. SETUP GUIDE

3.1 Connecting the Keyboard

The SKYLOONG GK61/SK61 keyboard connects via a detachable USB Type-C cable, ensuring a stable and reliable connection for gaming and typing.

1. Locate the USB Type-C port on the back of the keyboard.
2. Connect one end of the provided USB Type-C cable to the keyboard's port.
3. Connect the other end of the USB cable to an available USB port on your computer (PC or Mac).
4. The keyboard will be automatically recognized by your operating system, and the RGB backlighting will illuminate.



Figure 3: The USB Type-C interface for connecting the keyboard to your computer.

3.2 Software Installation (Optional for Advanced Features)

For full customization, including advanced RGB lighting effects, key remapping, and macro programming, download the official SKYLOONG software (often referred to as GK6XPlus driver). This software is compatible with Windows and macOS.

- Visit the official SKYLOONG website to download the latest software version.
- Install the software by following the on-screen instructions.
- Launch the software to access customization options.

3-layer programmable download mode



DIY user mode

Press Fn+W to enter user mode **layer1** ①, "W" lights white. Press FN+W again, back to standard mode.

DIY Mac OS mode

Press Fn+E to enter Mac OS mode **layer2** ②, "E" lights white. Press FN+E again, back to standard mode.



FNX layer3 function definition

Press Fn+R to enter FNX mode **layer3** ③, "R" lights white. Press FN+R again, back to standard mode.

Figure 4: The software interface for managing the keyboard's programmable layers and lighting effects.

4. OPERATING INSTRUCTIONS

4.1 Basic Functions and Fn Layer

The GK61/SK61 is a 60% keyboard, meaning some functions are accessed via a Function (Fn) layer. The Fn key is typically located on the bottom right of the keyboard.

Common Fn Key Combinations

Combination	Function
Fn + 1! - 0)	F1 - F10
Fn + -=	F11
Fn + [+={	F12

Combination	Function
Fn + Q	Layer 1 (User Mode)
Fn + E	Layer 2 (Mac OS Mode)
Fn + R	Layer 3 (FNX Mode)
Fn + W	Switch between User Mode and Standard Mode
Fn + Spacebar	Change RGB lighting effects
Fn + Alt (Right)	Adjust RGB brightness

4.2 RGB Backlighting Control

The keyboard features 16.8 million color RGB backlighting with multiple adjustable modes. Use the following combinations to control the lighting:

- **Fn + Spacebar:** Cycle through various RGB lighting effects.
- **Fn + Right Alt:** Adjust the brightness of the backlighting.
- **Fn + Right Ctrl:** Change the speed of dynamic lighting effects.

4.3 Programmable Keys and Macros

The SKYLOONG GK61/SK61 supports full key programmability and on-the-fly macro recording through its 3-layer programmable download mode. This allows for extensive customization of key functions and complex command sequences.

- **DIY User Mode (Layer 1):** Press **Fn + W** to enter. The 'W' key will light white. Press **Fn + W** again to return to standard mode. This layer is for user-defined key mappings.
- **DIY Mac OS Mode (Layer 2):** Press **Fn + E** to enter. The 'E' key will light white. Press **Fn + E** again to return to standard mode. This layer is optimized for macOS specific functions.
- **FNX Layer 3 Function Definition (Layer 3):** Press **Fn + R** to enter. The 'R' key will light white. Press **Fn + R** again to return to standard mode. This layer allows for advanced function definitions.

Detailed programming instructions are available within the GK6XPlus software.

5. MAINTENANCE

5.1 Cleaning the Keyboard

Regular cleaning helps maintain the keyboard's performance and appearance.

- Disconnect the keyboard from your computer before cleaning.
- Use a soft brush or compressed air to remove dust and debris from between the keycaps.
- For surface cleaning, gently wipe the keycaps and chassis with a slightly damp, lint-free cloth. Avoid excessive moisture.
- The keyboard has an IP68 waterproof rating, offering protection against spills. However, it is recommended to clean up any liquid spills immediately to prevent long-term damage.



Figure 5: The keyboard's waterproof design, allowing for enhanced durability against spills.

5.2 Switch Replacement (Hot-Swap Feature)

The SKYLOONG GK61/SK61 features hot-swappable Gateron Optical Switches, allowing you to easily change switches without soldering. This is only compatible with other Gateron Optical Switches.

1. Using the provided keycap puller, carefully remove the desired keycap.
2. Insert the switch puller around the top and bottom clips of the switch.
3. Gently squeeze the clips and pull the switch straight up to remove it from the PCB.
4. Align the pins of the new Gateron Optical Switch with the holes on the PCB.
5. Press the new switch firmly into place until it clicks. Ensure it is seated properly.
6. Replace the keycap.

Gateron optical switch

Hot swap (only for optical switch)



Figure 6: The hot-swap capability of the Gateron optical switches, allowing for easy replacement.

6. TROUBLESHOOTING

If you encounter issues with your SKYLOONG GK61/SK61 keyboard, please refer to the following common solutions:

- **Keyboard not responding:**
 - Ensure the USB Type-C 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.
- **RGB lighting not working or stuck:**
 - Press **Fn + Spacebar** to cycle through lighting modes.
 - Press **Fn + Right Alt** to adjust brightness.
 - Ensure the keyboard is not in a specific programmable layer that might override lighting settings.
 - If using the software, check lighting settings within the application.

- **Keys not registering or double-typing:**

- Carefully remove the keycap and switch (if hot-swappable) for the affected key. Check for any debris or obstruction.
- Re-seat the switch firmly. If the issue persists, consider replacing the switch.
- Ensure the keyboard firmware is up to date via the official software.

- **Programmable functions not working:**

- Ensure you are in the correct programmable layer (Fn + W, Fn + E, or Fn + R).
- Verify your settings within the GK6XPlus software.
- Make sure the software is running and properly communicating with the keyboard.

7. SPECIFICATIONS

Feature	Detail
Model	GK61 / SK61
Layout	60% (61 Keys)
Switch Type	Gateron Optical Brown (Hot-swappable for optical switches only)
Connectivity	Wired (USB Type-C detachable cable)
Backlighting	RGB (16.8 million colors, multiple modes)
Programmability	Full keys programmable, 3-layer download mode, on-the-fly macro recording
Durability	IP68 Waterproof/Dustproof/Anti-Corrosion, 100 million keystrokes lifetime
Keycaps	ABS dual-color
Compatibility	Windows 2000/XP/Vista/Win7/Win8/Win10, Mac OS
Dimensions	Approx. 292mm x 104mm (Refer to Figure 2 for visual)
Weight	Approx. 1.32 pounds (0.6 kg)

Ergonomics design

five level height forming arc surface

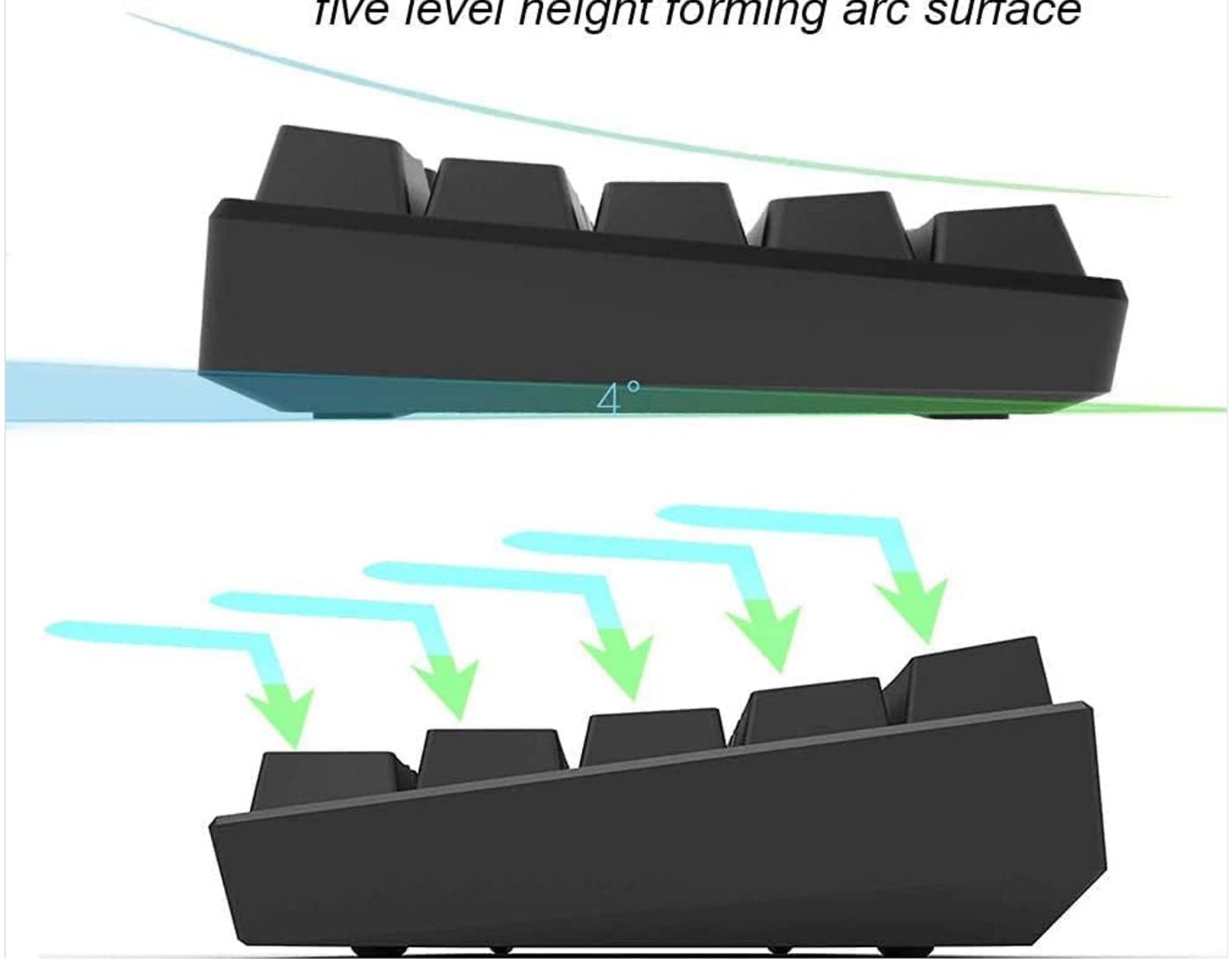


Figure 7: Ergonomic design of the keyboard, featuring a five-level height arc surface for comfortable typing.

Super hardware architecture

32-bit M3 MCU

8M Flash memory

3 channels 256 professional level RGB color management chip

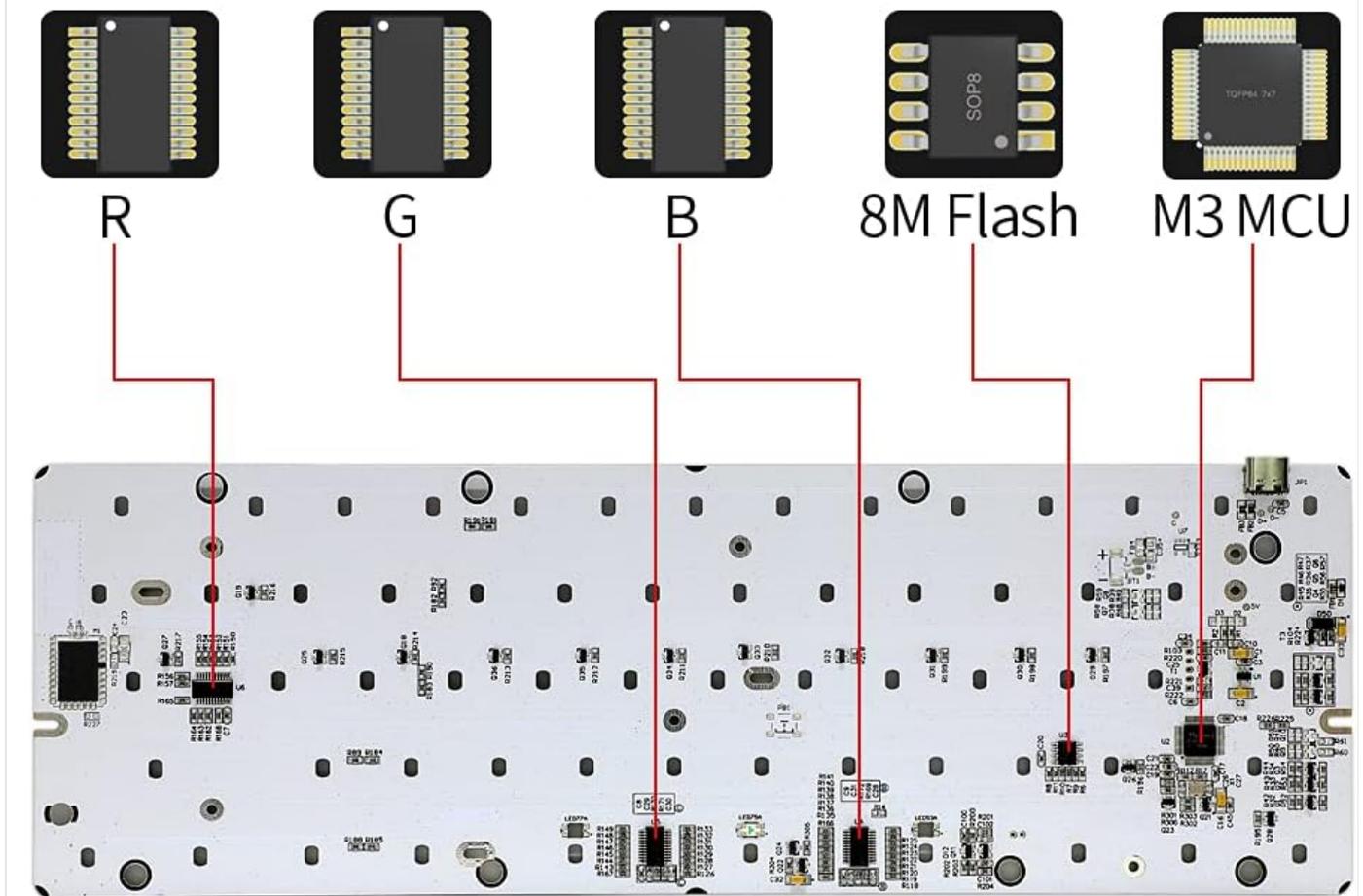


Figure 8: Internal hardware architecture, highlighting the 32-bit M3 MCU, 8M Flash memory, and 3 channels 256 professional level RGB color management chip.

8. WARRANTY AND SUPPORT

SKYLOONG products are designed for reliability and performance. For warranty information, technical support, or service inquiries, please refer to the official SKYLOONG website or contact your retailer. Keep your proof of purchase for warranty claims.

For the latest drivers and software, please visit the official SKYLOONG support page.

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Related Documents - GK61

	<p>SKYLOONG GK61 V2 Series Mechanical Keyboard User Manual and Features</p> <p>Comprehensive user guide for the SKYLOONG GK61 V2 series 60% mechanical keyboard, covering USB wired and Bluetooth connectivity, Fn layer functions, system controls, and software-based customization of keys and RGB lighting.</p>
	<p>Skyloong GK87S V2 Series RGB Mechanical Keyboard User Guide</p> <p>Comprehensive guide for the Skyloong GK87S V2 Series RGB mechanical keyboard, covering wired and Bluetooth modes, FN function descriptions, backlight customization, driver settings, and support information.</p>
	<p>Skyloong GK108/SK108 RGB USB Wired/Bluetooth Keyboard User Guide</p> <p>Comprehensive guide to the Skyloong GK108/SK108 RGB mechanical keyboard, covering wired and Bluetooth 2-mode operation, customization options, backlight settings, and system controls.</p>
	<p>SKYLOONG GK104 Pro Keyboard User Guide</p> <p>A comprehensive guide to the SKYLOONG GK104 Pro keyboard, covering its features, functions, and customization options for USB wired, Bluetooth, and 2.4g wireless modes.</p>
	<p>Skyloong GK75 USB Wired Keyboard: Functions and Settings Guide</p> <p>Detailed guide to the Skyloong GK75 USB wired keyboard, covering knob functions, FN key combinations, backlight settings, and mode-specific key mappings for Windows and Mac.</p>
	<p>SKYLOONG GK87 QMK/VIA-USB Wired Keyboard User Manual</p> <p>Comprehensive user manual for the SKYLOONG GK87 QMK/VIA-USB wired keyboard, detailing its features, functions, QMK/VIA customization, backlighting, and mode settings.</p>