Surmen GT61

Surmen GT61 60% Mechanical Gaming Keyboard User Manual

Model: GT61 | Brand: Surmen

1. Introduction

The Surmen GT61 is a compact 60% mechanical gaming keyboard designed for versatility and performance. It features hot-swappable switches, multi-mode connectivity (wired USB-C, Bluetooth 5.0), vibrant RGB backlighting, and durable PBT keycaps. This manual provides detailed instructions to help you set up, operate, and maintain your GT61 keyboard.



Image: The Surmen GT61 keyboard showcasing its compact 60% layout, RGB backlighting, and the included Gateron Yellow switch.

2. Package Contents

Before you begin, please ensure all items are present in the package:

- Surmen GT61 Mechanical Gaming Keyboard
- USB-C to USB-A Cable
- Keycap Puller
- Switch Puller
- Extra Keycaps (ESC, Space Bar, Enter)



Image: The Surmen GT61 keyboard with its standard keycaps and the additional ESC, Space Bar, and Enter keycaps provided for customization.

3. Setup and Connectivity

The GT61 keyboard offers both wired and wireless connectivity options.

3.1 Wired Connection

To connect the keyboard via USB-C:

1. Locate the USB-C port on the back of the keyboard.
2. Connect one end of the provided USB-C cable to the keyboard.
3. Connect the other end of the USB-A cable to an available USB port on your computer.
4. The keyboard will be automatically recognized and ready for use.

3.2 Bluetooth Connection

The GT61 supports Bluetooth 5.0 and can connect to up to three devices simultaneously. The keyboard has three dedicated Bluetooth channels (BT1, BT2, BT3).

1. **Switching to Bluetooth Mode:** Ensure the switch on the back of the keyboard is set to 'ON' (wireless mode).
2. **Pairing Mode:** Press and hold **FN + E** (for BT1), **FN + R** (for BT2), or **FN + T** (for BT3) for 3-5 seconds until the corresponding key (E, R, or T) flashes rapidly. This indicates the keyboard is in pairing mode.
3. **Connect on Device:** On your computer, laptop, tablet, or smartphone, enable Bluetooth and search for new devices. Select "Surmen GT61" from the list of available devices.
4. **Confirmation:** Once connected, the flashing light on the E/R/T key will become solid, indicating a successful pairing.
5. **Switching Between Devices:** To switch between paired devices, simply press **FN + E**, **FN + R**, or **FN + T** briefly.



Image: The Surmen GT61 keyboard illustrating its dual connectivity options: wired via USB and wireless via Bluetooth, connecting to a laptop.

3.3 Charging the Battery

The GT61 keyboard is equipped with an 1800mAh battery. To charge the keyboard, connect it via the USB-C cable to a powered USB port (e.g., computer, wall adapter). The RGB lighting may indicate charging status, typically by pulsing or changing color. A full charge can last up to 24 hours with static RGB lighting or up to 5 days with normal use (8 hours/day).



Image: A visual representation highlighting the keyboard's 1800mAh battery capacity and 10-meter wireless range.

4. Operating Instructions

4.1 Function Key Combinations (FN Layer)

Due to its 60% compact layout, many functions are accessed via the **FN** key in combination with other keys. Refer to the keycaps for specific legends.

- **FN + 1-12 (F-keys):** Access F1-F12 functions.
- **FN + Q/W/E/R/T:** Q, W, E are typically used for Bluetooth device switching (BT1, BT2, BT3). R and T might be for other wireless modes or functions.
- **FN + A/S/D/F/G:** Often used for Mac/Win mode switching or other system functions.
- **FN + Y/U/I/O/P:** Media controls (e.g., Play/Pause, Stop, Previous, Next).
- **FN + H/J/K/L:** Volume controls (e.g., Mute, Volume Down, Volume Up).
- **FN + M/</,/./?:** Navigation keys (e.g., Home, End, PgUp, PgDn).

- **FN + \|:** Backlight mode cycle.
- **FN + [{:** Backlight brightness down.
- **FN +]}:** Backlight brightness up.
- **FN + ;::** Backlight speed down.
- **FN + '":** Backlight speed up.

4.2 RGB Backlighting

The GT61 features customizable RGB backlighting. Use the FN key combinations mentioned above to cycle through various lighting modes, adjust brightness, and change animation speed. The keyboard supports full RGB customization.

4.3 Hot-Swappable Switches

The GT61 keyboard is hot-swappable, allowing you to easily change 3-pin mechanical switches without soldering. This feature enables customization of typing feel and sound.

1. **Remove Keycap:** Use the provided keycap puller to gently remove the desired keycap.
2. **Remove Switch:** Use the provided switch puller to grasp the top and bottom clips of the switch. Apply gentle pressure and pull the switch straight up to remove it from the PCB.
3. **Insert New Switch:** Align the pins of the new 3-pin switch with the holes on the PCB. Ensure the pins are straight to avoid bending. Gently push the switch down until it clicks into place.
4. **Replace Keycap:** Press the keycap onto the new switch stem until it is secure.



Image: A detailed view of the keyboard's hot-swappable sockets, with several switches removed and ready for replacement, highlighting the ease of customization.



Image: A close-up showing a Gateron Yellow switch and the PBT keycaps, noting that the keycaps are not shine-through, meaning the legends do not illuminate.

5. Maintenance

5.1 Cleaning the Keyboard

To ensure longevity and optimal performance, regular cleaning is recommended:

- Disconnect the keyboard from your device before cleaning.
- Use a can of compressed air to remove dust and debris from between the keycaps.
- For keycap cleaning, gently remove them using the keycap puller. Wash keycaps with mild soap and water, rinse thoroughly, and ensure they are completely dry before reattaching.
- Wipe the keyboard surface with a soft, slightly damp, lint-free cloth. Avoid excessive moisture.

5.2 Keycap and Switch Replacement

As detailed in Section 4.3, the hot-swappable design allows for easy replacement of keycaps and switches. This can be done to customize the keyboard's appearance or to replace worn-out components.

6. Troubleshooting

If you encounter issues with your Surmen GT61 keyboard, refer to the following common solutions:

- **Keyboard Not Responding (Wired):** Ensure the USB-C cable is securely connected to both the keyboard and the computer. Try a different USB port or cable.
- **Keyboard Not Connecting (Bluetooth):**
  - Ensure the keyboard's power switch is ON.
  - Make sure the keyboard is in pairing mode (FN + E/R/T, corresponding key flashing).
  - Check your device's Bluetooth settings and ensure Bluetooth is enabled.
  - Forget the device on your computer/phone and try pairing again.
  - Ensure the keyboard battery is charged.
- **Incorrect Key Output / Key Mapping Issues:**Some users have reported issues with Alt and Windows keys being swapped. This may be a firmware issue or a specific key combination for switching layouts. Consult the manufacturer's support for firmware updates or specific key combinations to resolve this.
- **RGB Backlighting Not Working:** Ensure the keyboard is powered on. Try cycling through lighting modes using FN key combinations. Check if brightness is set to maximum.
- **Keys Not Registering:** If a specific key is not working, it might be a faulty switch. Since the keyboard is hot-swappable, try replacing the switch in question with a known working one or one of the extra switches provided. Ensure the switch is fully seated.
- **Short Battery Life:** Reduce RGB brightness or turn off lighting when not needed. Ensure the keyboard is fully charged before use.

7. Specifications

Model	GT61
Connectivity	Bluetooth 5.0, USB-C Wired
Switch Type	Gateron Yellow (Hot-swappable 3-pin)
Keycaps	PBT (OEM profile, not shine-through)
Layout	60% (61 keys)
Backlighting	RGB (Programmable)
Battery Capacity	1800mAh Lithium Ion
Wireless Distance	Up to 10 meters
N-Key Rollover	Supported
Dimensions	13.15 x 6.5 x 1.89 inches
Item Weight	1.98 pounds

8. Warranty and Support

For warranty information, technical support, or further assistance, please refer to the documentation included with your purchase or visit the official Surmen website. Keep your proof of purchase for any warranty claims.

The product typically comes with a return policy allowing for refund/replacement within 30 days of purchase, subject to retailer terms.

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