surmen GT61

surmen GT61 60% Mechanical Gaming Keyboard User Manual

Model: GT61 | Brand: surmen

INTRODUCTION

Thank you for choosing the surmen GT61 60% Mechanical Gaming Keyboard. This compact and versatile keyboard is designed for both gaming and productivity, offering hot-swappable switches, vibrant RGB backlighting, and seamless connectivity options. This manual provides detailed instructions to help you set up, operate, and maintain your new keyboard.

WHAT'S IN THE BOX

- surmen GT61 Mechanical Gaming Keyboard
- USB Cable
- Keycap Puller (may vary by package)
- Switch Puller (may vary by package)
- Extra Keycaps (ESC, Space Bar, Enter - Dye-Sub)

Figure 1: Contents of the surmen GT61 package, including the keyboard, USB cable, and additional keycaps.

FEATURES

- **Hot-swappable PCB:** Allows for easy replacement of 3-pin MX-style switches without soldering.
- **Yellow Switches:** Light and linear, providing a smooth, quiet, and consistent typing experience, suitable for both office work and gaming.
- **Tri-Mode Connectivity:** Connects to up to 3 devices via Bluetooth 5.0, 2.4GHz wireless, or wired USB-C.
- **Full Keys Anti-ghosting (N-Key Rollover):** Ensures all 61 keys register simultaneously for fast and accurate input.
- **Oil-Resistant PBT Keycaps:** Durable keycaps with OEM profile, providing uniform backlighting and ergonomic comfort, resistant to wear and shine.
- **RGB Backlighting:** Customizable RGB lighting with multiple modes for personalized aesthetics.

Figure 2: The hot-swappable design allows for easy switch replacement.

Figure 3: High-quality PBT keycaps provide durability and a premium feel.

SETUP

1. Wired Connection

Connect the provided USB-C cable to the keyboard's USB-C port and the other end to an available USB port on your computer. The keyboard will be automatically recognized and ready for use.

2. Bluetooth Connection

The surmen GT61 supports Bluetooth 5.0 and can connect to up to 3 devices. To connect via Bluetooth:

1. Ensure the keyboard is charged or connected via USB-C.
2. Flip the switch on the back of the keyboard to the 'ON' position.
3. Press and hold **FN + E**, **FN + R**, or **FN + T** for 3-5 seconds to enter pairing mode for the desired device slot. The corresponding key (E, R, or T) will flash rapidly.

4. On your device (PC, laptop, tablet, smartphone), enable Bluetooth and search for new devices.
5. Select "surmen GT61" from the list of available devices to complete the pairing process. The flashing light will become solid once connected.

Figure 4: Bluetooth switch and USB-C port for connectivity.

3. Charging

The keyboard has a durable 1300 mAh battery. Connect the USB-C cable to the keyboard and a power source (computer USB port or USB wall adapter) to charge. The battery indicator will show charging status. A full charge provides up to 120 hours with RGB off, or 30 hours with RGB on.

Figure 5: Battery capacity and estimated usage times.

4. Hot-Swapping Switches

To replace a switch:

1. Carefully remove the keycap using the provided keycap puller.
2. Use the switch puller to gently grip the top and bottom clips of the switch and pull it straight up.
3. Align the pins of the new 3-pin MX-style switch with the holes on the PCB.
4. Press the new switch firmly into place until it clicks. Ensure it is seated correctly and not bent.
5. Re-attach the keycap.

Figure 6: The PCB supports 3-pin switches for easy DIY customization.

OPERATING INSTRUCTIONS

1. Switching Between Connected Devices

Once paired with multiple devices, you can switch between them by pressing **FN + E** (Device 1), **FN + R** (Device 2), or **FN + T** (Device 3).

Figure 7: Connects with up to 3 devices via Bluetooth.

2. RGB Backlight Control

The keyboard features various RGB lighting modes. Use the following key combinations to control the backlighting:

- **FN + \|:** Cycle through different lighting effects.
- **FN + [{ :** Decrease backlight brightness.
- **FN +] } :** Increase backlight brightness.
- **FN + ; : :** Decrease lighting speed.
- **FN + ' " :** Increase lighting speed.

Video 1: Demonstration of various RGB backlighting modes and effects on the surmen GT61 keyboard.

3. N-Key Rollover

The GT61 supports full N-Key Rollover, meaning every key press is registered independently, even when multiple keys are pressed simultaneously. This is crucial for fast typing and competitive gaming to prevent missed inputs.

Maintenance

Cleaning Your Keyboard

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

- Disconnect the keyboard from your computer before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe down the keycaps and frame.
- For deeper cleaning, you can remove keycaps using the provided keycap puller and use compressed air to clear debris from underneath.
- Avoid using harsh chemicals or abrasive materials that could damage the keyboard's finish or keycap legends.

Troubleshooting

1. Keyboard Not Responding

- Ensure the keyboard is charged.
- For wired connection, try a different USB port or cable.
- For Bluetooth, ensure the keyboard is in pairing mode or connected to the correct device slot (FN+E/R/T). Try re-pairing the device.
- Check if the power switch on the back of the keyboard is in the 'ON' position.

2. RGB Lights Not Working or Incorrectly Displaying

- Ensure the keyboard is powered on.
- Cycle through lighting modes using FN + \|.
- Adjust brightness using FN + [{ and FN +] }.
- If a specific key's light is off, ensure the switch is properly seated.

3. Keys Not Registering or Double-Typing

- Remove the keycap and switch for the affected key. Re-insert the switch firmly to ensure proper contact.
- Test with a different switch if available, as the switch itself might be faulty.
- Ensure the keyboard firmware is up to date (check surmen's official website for updates).

4. Incorrect Key Mapping (e.g., Alt and Windows keys swapped)

- Refer to the keyboard's software (if available) for remapping options.
- Some keyboards have a hardware switch or key combination to swap certain keys (e.g., FN + Left Alt for Windows/Alt swap). Consult the quick start guide or product page for specific combinations.

Specifications

Feature	Detail
Model Number	GT61
Connectivity	Bluetooth 5.0, USB-C Wired
Keyboard Description	Mechanical

Switch Type	Hot-swappable 3-pin (Yellow Switch included)
Number of Keys	61
Keycap Material	PBT (Oil-Resistant)
Backlighting	RGB
Battery Capacity	1 Lithium Ion batteries required (included)
Item Weight	1.76 pounds
Package Dimensions	13.15 x 6.54 x 1.97 inches
Compatible Devices	PC

WARRANTY & SUPPORT

For warranty information and technical support, please refer to the product packaging or visit the official surmen website. Keep your purchase receipt for warranty claims.