YOUSUOMASTER YK61

YOUSUOMASTER YK61 Mini Hall Effect Magnetic Switch Gaming Keyboard User Manual

Model: YK61

1. Introduction

The YOUSUOMASTER YK61 is a 60% mini mechanical gaming keyboard featuring advanced Hall Effect magnetic switches. Designed for competitive gaming, it offers adjustable actuation, rapid trigger mode, and an 8K Hz polling rate for ultra-fast response times. This manual provides detailed instructions for setting up, operating, and maintaining your YK61 keyboard.

2. What's in the Box

Carefully unpack your YK61 keyboard and ensure all components are present:

- YK61 Mechanical Gaming Keyboard (x1)
- USB-C Cable (x1)
- Keycap Puller (x1)
- User Manual (x1)

Image: Contents of the YK61 keyboard box, showing the keyboard, USB-C cable, keycap puller, and user manual.

3. Features Overview

3.1 Hall Effect Magnetic Switches

The YK61 utilizes Hall Effect magnetic switches, which detect key presses using magnetic fields instead of physical contact. This design eliminates wear and tear, providing precise and consistent actuation. Key travel is 4.0 ± 0.3mm, with an actuation force of 35 ± 5gf and a durability of approximately 100 million presses.

Image: Detailed comparison of Hall Effect magnetic switches with adjustable trigger/reset points (0.1mm to 2.3mm) versus fixed points on standard switches.

3.2 Rapid Trigger Mode

Rapid Trigger mode allows for dynamic actuation and deactuation based on key movement, enabling faster repeated inputs. This feature is particularly beneficial for competitive gaming, allowing for quicker peeking and shooting in FPS titles.

Image: A white YK61 keyboard showcasing the Rapid Trigger function, emphasizing instant feedback, 0.1mm per-key independent adjustment, and optimization for various gaming genres.

3.3 Ultra-High Speed Response

The YK61 boasts an 8000Hz polling rate, delivering data to your computer 8 times faster than standard 1000Hz devices. This results in an ultra-low input latency of 0.125ms, providing a significant advantage in fast-paced games.

Image: Visual representation of the keyboard's 8000Hz polling rate and 0.125ms input latency, optimized for esports tournaments.

3.4 60% Compact Design

The 60% layout eliminates the numeric keypad and function row, resulting in a compact form factor that saves desk space and is highly portable. This design is ideal for gamers who prioritize mouse movement space.

Image: The YK61 keyboard demonstrating its ultra-compact design, portability, and detachable USB-C cable, highlighting its 40% smaller size compared to standard keyboards.

3.5 Gasket-Mount Structure

The keyboard features a gasket-mount design with integrated silicone pads and multi-layer sound-dampening material. This construction enhances typing feel by providing a softer, more resilient experience and effectively reducing cavity noise.

Image: Exploded view of the YK61's internal structure, detailing components such as PBT keycaps, Hall Effect switches, aluminum alloy plate, and various sound-dampening layers for a gasket-mount design.

3.6 RGB Backlighting & Programmable Software

The YK61 includes customizable RGB backlighting with 19 effects and over 16.8 million colors. Dedicated software allows for key mapping, macro definitions, and advanced lighting effects, including music rhythm synchronization.

Image: The YK61 keyboard illuminated with dynamic RGB backlighting, showcasing its customizable lighting capabilities.

3.7 Hot-Swappable Switches

The magnetic switches are hot-swappable, allowing users to easily replace switches without soldering. This provides flexibility for customization and maintenance.

Image: A close-up view of the YK61's Hall Effect magnetic switches, demonstrating their hot-swappable nature.

4. Setup Instructions

4.1 Connecting the Keyboard

1. Connect the USB-C end of the provided cable to the USB-C port on the back of the YK61 keyboard.
2. Connect the USB-A end of the cable to an available USB port on your computer.
3. The keyboard will automatically be recognized by your Windows operating system. No additional drivers are required for basic functionality.

4.2 Driver and Software Installation

For full customization, including key mapping, macro definitions, and advanced RGB lighting effects, download the official YK61 driver from the YOUSUOMASTER website: yousuomaster.com.

- Visit the website and navigate to the support or downloads section.
- Download the YK61 driver software (Windows OS only, wired mode required for software use).
- Follow the on-screen instructions to install the software.

Image: Screenshot of the YOUSUOMASTER YK61 software, showing options for key mapping, macro definitions, and performance settings, including rapid trigger adjustment.

5. Operating Instructions

5.1 Basic Key Functions (60% Layout)

The YK61 features a 60% layout, meaning some standard keys (like function keys, arrow keys, and numeric keypad) are accessed via a combination of keys, typically using the **Fn** key.
Refer to the quick reference card included in the box for specific**Fn** key combinations. Common combinations include:

- **Fn + [Key]**: Accesses secondary functions printed on keycaps (e.g., F1-F12, arrow keys, Home, End, Page Up/Down).
- **Fn + I, J, K, L**: May function as arrow keys depending on the active mode.

5.2 RGB Lighting Control

The YK61 offers various RGB lighting effects. These can be controlled directly on the keyboard using**Fn** key combinations or through the dedicated software.
Common onboard controls (refer to your quick reference card for exact combinations):

- **Fn +** \|: Cycle through lighting effects.
- **Fn + [Arrow Keys]**: Adjust brightness or speed of effects.
- **Fn + [Specific Keys]**: Change lighting colors or modes.

For advanced customization, use the YOUSUOMASTER software to:

- Select from 19 preset RGB lighting effects.
- Customize individual key colors.
- Create custom lighting profiles.
- Enable music rhythm backlight synchronization.

5.3 Programmable Software Functions

The YOUSUOMASTER software provides extensive control over your keyboard:

- **Key Mapping**: Reassign any key to a different function.
- **Macro Definitions**: Record and assign complex sequences of key presses to a single key.
- **Actuation Customization**: Adjust the actuation point of each magnetic switch from 0.1mm to 4.0mm with 0.1mm sensitivity.
- **Rapid Trigger Mode Settings**: Enable/disable Rapid Trigger and fine-tune its sensitivity.
- **Profile Management**: Save and switch between multiple custom profiles for different games or applications.

6. Maintenance

6.1 Cleaning the Keyboard

To maintain optimal 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 keycap cleaning, use a slightly damp cloth with mild soap and water. Ensure keycaps are completely dry before reattaching.
- Avoid using harsh chemicals or abrasive materials.

6.2 Hot-Swapping Switches and Keycaps

The YK61 supports hot-swappable magnetic switches and standard keycaps.

1. **Removing Keycaps**: Use the included keycap puller. Gently hook the puller onto the keycap and pull straight up.
2. **Removing Switches**: Use a switch puller (not included, but often comes with replacement switches). Carefully grip the switch from the top and bottom clips and pull straight up.
3. **Installing Switches**: Align the new magnetic switch with the socket on the PCB. Press down gently until it clicks into place. Ensure the pins are not bent.
4. **Installing Keycaps**: Align the keycap with the switch stem and press down firmly until it is seated.



Image: A collection of PBT keycaps, highlighting their material properties for stability and oil resistance, which are beneficial for high-frequency gaming use.

7. Troubleshooting

7.1 Keyboard Not Responding

- Ensure the USB-C cable is securely connected to both the keyboard and your computer.
- Try connecting the keyboard to a different USB port on your computer.
- Test the keyboard on another computer to rule out a system-specific issue.
- Restart your computer.

7.2 RGB Lighting Not Working or Incorrect

- Check onboard lighting controls (**Fn** key combinations) to ensure lighting is not turned off or set to a very dim

level.

- Ensure the YOUSUOMASTER software is running and the correct profile is selected.
- Update the keyboard firmware via the YOUSUOMASTER software if available.

7.3 Keys Not Registering or Double-Typing

- This could indicate a faulty switch. Since the switches are hot-swappable, try replacing the problematic switch.
- Ensure the switch is fully seated in its socket.
- Check the actuation point settings in the YOUSUOMASTER software; a very low actuation point might cause unintended presses.

7.4 Software Not Detecting Keyboard

- Ensure the keyboard is connected via a wired USB-C connection. The software only supports wired mode.
- Verify that you have downloaded the correct YK61 driver software fromyousuomaster.com.
- Temporarily disable any antivirus or firewall software that might be blocking the application.
- Run the software as an administrator.

8. Specifications

Brand	YOUSUOMASTER
Model Number	YK61
Connectivity Technology	USB-C (Wired)
Keyboard Description	Magnetic (Hall Effect Switches)
Number of Keys	61
Polling Rate	8000Hz
Actuation Point	Adjustable (0.1mm to 4.0mm)
Actuation Force	35 ± 5gf
Keycap Material	PBT
Backlighting	RGB (19 effects, 16.8M colors)
Hot-Swappable	Yes
Compatible Operating System	Windows
Product Dimensions	11.54"L x 4.06"W x 1.16"H
Item Weight	499 Grams

9. Warranty and Support

9.1 Warranty Information

This product does not include a specified warranty description. Please refer to your retailer's return policy or contact YOUSUOMASTER customer support for further details regarding potential warranty coverage.

9.2 Customer Support

For technical assistance, troubleshooting, or general inquiries, please visit the official YOUSUOMASTER website:
www.yousuomaster.com
You may find FAQs, driver downloads, and contact information on the website.

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