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FiiO KB3

FiiO KB3 HiFi Mechanical Music Keyboard User Manual

Model: KB3

1. INTRODUCTION

The FiiO KB3 is a mechanical keyboard designed to integrate high-fidelity audio decoding and amplification with a responsive typing experience. This manual provides instructions for setting up, operating, and maintaining your FiiO KB3 keyboard to ensure optimal performance and longevity.



Image 1.1: The FiiO KB3 HiFi Mechanical Music Keyboard, showcasing its RGB backlighting and compact 75% layout.

2. PRODUCT OVERVIEW

2.1 Key Features

- **Integrated HiFi Audio:** Features dual high-performance DAC chips (CS43131*2) and op-amp chips (SGM8262*2) for professional-grade lossless audio decoding and amplification.
- **High-Resolution Audio Support:** Supports audio decoding up to 32Bit/384kHz and DSD256.
- **Powerful Headphone Output:** Provides up to 550mW output, capable of driving most headphones.
- **Dual Headphone Outputs:** Includes 3.5mm single-ended (TRRS with microphone support) and 4.4mm balanced headphone output interfaces.
- **Mechanical Keyboard Design:** 75% layout with 81 keys, multi-layer GASKET structure, and Kailh Box 3.0 Pro Yellow switches for a smooth typing experience.
- **Hot-Swappable Switches:** Allows for easy replacement and customization of switches.
- **RGB Backlighting:** Customizable RGB lighting with multiple preset dynamic lighting effects.

- **Durable Construction:** High-quality aluminum-magnesium alloy keyboard cover.
- **Wide Compatibility:** Supports PC, Mac, iOS, and Android devices.
- **VIA Firmware Support:** Enables advanced customization of key functions and RGB lighting.

Ergonomic, all easily accessible

All editions come with
stepless volume knob



Standard Gateron G Pro 3.0
yellow switch

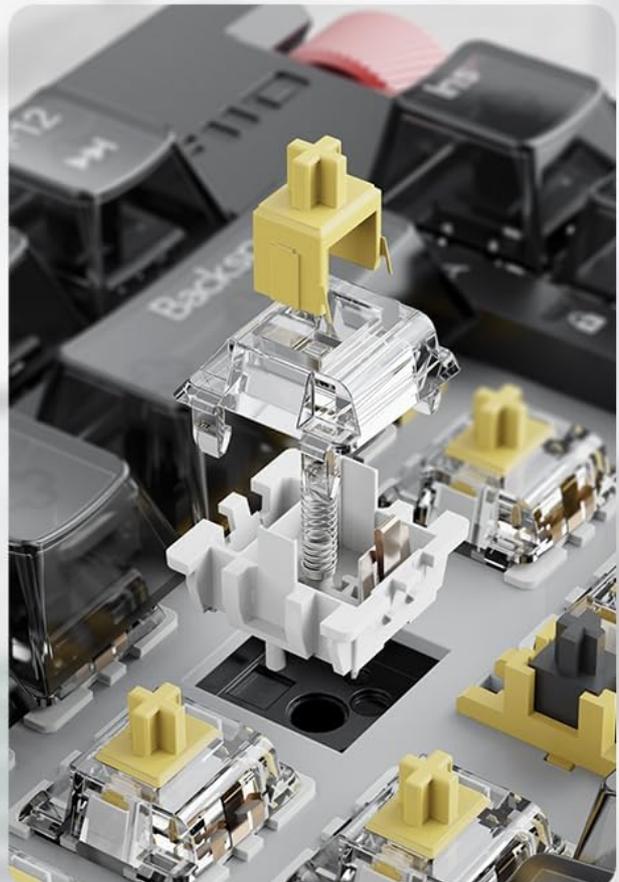


Image 2.1: Overview of the FiiO KB3's primary features, highlighting its mechanical and audio capabilities.

2.2 Package Contents

Verify that all items are present in the package:

- FiiO KB3 HiFi Mechanical Music Keyboard
- USB Cable (for connectivity and power)

3. SETUP

3.1 Connecting the Keyboard

1. Locate the USB-C port on the FiiO KB3 keyboard.

2. Connect one end of the provided USB cable to the keyboard's USB-C port.
3. Connect the other end of the USB cable to an available USB port on your computer (PC, Mac) or compatible device (iOS, Android).
4. The keyboard will typically be recognized automatically by your operating system.

3.2 Initial Audio Setup

1. After connecting the keyboard, your operating system should detect a new audio device.
2. Navigate to your system's sound settings (e.g., Windows Sound Settings, macOS System Settings > Sound).
3. Select the FiiO KB3 as your primary audio output device.
4. If using headphones, connect them to the appropriate 3.5mm or 4.4mm output jack on the side of the keyboard.

2+2 chip combo, ensures lots of high-quality power



Image 3.1: The dual audio outputs (3.5mm and 4.4mm) on the side of the FiiO KB3, allowing connection to various headphones.

4. OPERATION

4.1 Basic Keyboard Functions

The FiiO KB3 functions as a standard 75% mechanical keyboard. All keys are pre-programmed for typical keyboard input. Refer to your operating system's keyboard settings for any specific layout adjustments.

4.2 Audio Playback and Control

1. **Connecting Headphones:** Plug your 3.5mm or 4.4mm headphones into the corresponding jack on the left side of the

keyboard.

2. **Volume Control:** Use the dedicated volume knob located on the right side of the keyboard to adjust the audio output level. This knob controls the system volume of the connected device.
3. **Microphone Input:** The 3.5mm TRRS jack supports microphone input, enabling voice communication for gaming or calls when using compatible headsets.

Dual outputs, to connect various devices



Image 4.1: The ergonomic volume knob for audio control and a view of the Gateron G Pro 3.0 yellow switch.

4.3 RGB Lighting Customization

The FiiO KB3 features customizable RGB backlighting. You can cycle through various preset lighting effects and colors using keyboard shortcuts. For advanced customization, including per-key lighting and macros, download and use the VIA software. Refer to the FiiO website for the latest VIA firmware and configuration files.

4.4 Hot-Swappable Switches

The keyboard's hot-swappable design allows you to change the Kailh Box 3.0 Pro Yellow switches without soldering. This enables users to experiment with different switch types to suit their preferences. Use a switch puller tool (not included) for safe removal and installation of switches.

5. SPECIFICATIONS

Feature	Specification
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Feature	Specification
Model	KB3
Keyboard Type	75% Mechanical Keyboard
Switches	Kailh Box 3.0 Pro Yellow (Hot-swappable)
Structure	Multi-layer GASKET
Backlighting	RGB
Connectivity	USB-C
Compatible Devices	PC, Mac, iOS, Android
DAC Chips	Cirrus Logic CS43131 * 2
Op-Amp Chips	SGMICRO SGM8262 * 2
Max Audio Decoding	PCM 384kHz/32bit, DSD256
Headphone Outputs	3.5mm (TRRS, microphone support), 4.4mm Balanced
Output Power (32Ω)	≥170mW + 170mW (3.5mm), ≥550mW + 550mW (4.4mm)
Material	Aluminum-Magnesium Alloy
Product Dimensions	12.6 x 5.51 x 1.69 inches (320 x 140 x 43 mm)
Item Weight	3.5 pounds (1.59 kg)

Tidy up your desk

Connecting audio equipment



Connecting other devices



Image 5.1: The 2+2 chip combination (CS43131 DACs and SGM8262 op-amps) integrated into the FiiO KB3 for high-quality audio processing.

6. TROUBLESHOOTING

6.1 No Audio Output

- **Check Connections:** Ensure the USB cable is securely connected to both the keyboard and your device. Verify headphones are fully plugged into the correct audio jack (3.5mm or 4.4mm).
- **System Audio Settings:** Confirm that "FiiO KB3" is selected as the default audio output device in your operating system's sound settings.
- **Volume Level:** Adjust the volume knob on the keyboard and check your system's volume level.
- **Driver/Firmware:** Ensure your operating system has the necessary drivers installed (usually automatic). If issues persist, check the FiiO website for any specific driver or firmware updates.

6.2 Keyboard Not Responding

- **USB Connection:** Disconnect and reconnect the USB cable. Try a different USB port on your computer.

- **Restart Device:** Restart your computer or connected device.
- **Cable Integrity:** Test with a different USB-C cable if available, to rule out a faulty cable.

6.3 RGB Lighting Issues

- **Keyboard Shortcuts:** Use the built-in keyboard shortcuts to cycle through lighting modes and adjust brightness/color.
- **VIA Software:** If using VIA, ensure the software is correctly configured and the latest firmware is installed. Some specific color hues might require fine-tuning within the software.

7. MAINTENANCE

7.1 Cleaning

- **General Cleaning:** Use a soft, dry cloth to wipe the surface of the keyboard. For dust between keycaps, use compressed air.
- **Deep Cleaning:** Keycaps can be carefully removed using a keycap puller (not included) for thorough cleaning. Clean keycaps with mild soap and water, ensuring they are completely dry before reattaching.
- **Avoid Liquids:** Do not spray cleaning solutions directly onto the keyboard. Avoid excessive moisture.

7.2 Switch Replacement

The FiiO KB3 features hot-swappable switches. To replace a switch:

1. Carefully remove the keycap using a keycap puller.
2. Use a switch puller to gently grasp the top and bottom clips of the switch and pull it straight up.
3. Align the pins of the new switch with the holes on the PCB and press it down firmly until it clicks into place. Ensure the pins are not bent.
4. Reattach the keycap.

Gasket mount design

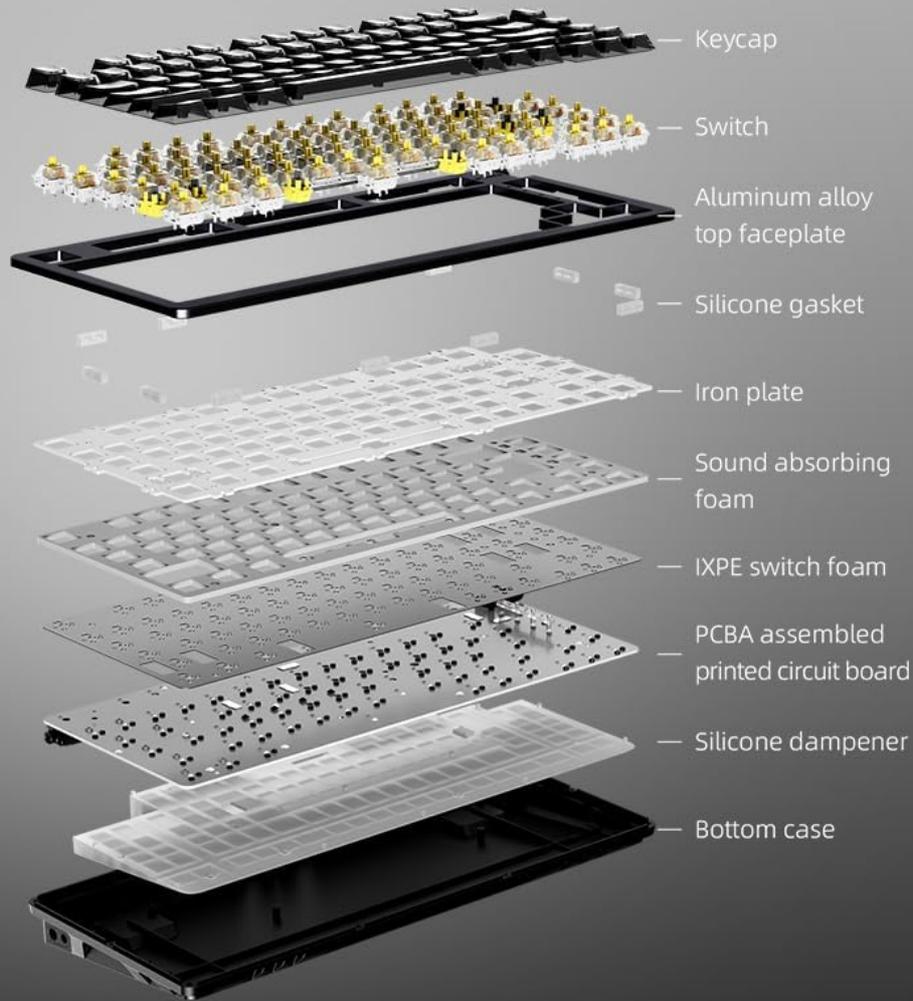


Image 7.1: Internal structure of the FiiO KB3, illustrating the multi-layer gasket mount design for enhanced typing feel and sound.

8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and the latest firmware updates, please visit the official FiiO website or contact FiiO customer service directly. Keep your purchase receipt for warranty claims.

FiiO Official Website: www.fiio.com