Redragon K521

Redragon K521 Upgrade Rainbow LED Gaming Keyboard User Manual

Model: K521

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1. Introduction

Thank you for choosing the Redragon K521 Upgrade Rainbow LED Gaming Keyboard. This wired mechanical feeling keyboard is designed to enhance your gaming and typing experience with its vibrant rainbow LED backlighting, multimedia keys, and anti-ghosting capabilities. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance and longevity of your device.



Figure 1.1: Redragon K521 Gaming Keyboard overview. This image displays the full layout of the keyboard with its rainbow LED backlighting active, showcasing the 104 keys including the numeric keypad and function row.

2. Key Features

- **Dreamy Rainbow LED Backlighting:** Features an upgraded LED backlight design for more penetrating and dazzling visual effects, enhancing your gaming environment.
- **One-Touch Lighting Control:** Convenient on/off lighting button. Includes three-position adjustable breathing mode and four-position adjustable brightness lighting mode.
- **Mechanical Feeling Keys:** Designed to provide a tactile and responsive typing experience, allowing for quick and accurate key triggers.
- **19-Key Anti-Ghosting:** Ensures that every button press is registered accurately, even during complex key combinations, crucial for gaming performance.
- **12 Multimedia Combination Keys:** Equipped with dedicated multimedia keys to enhance gaming and office efficiency, providing convenient control over media functions.
- **Wide Compatibility:** Compatible with Windows XP/Vista/7/8/10/11, PS4/5, Xbox, and macOS. Plug-and-play functionality requires no additional drivers.



Figure 2.1: Upgraded Rainbow Backlit Gaming Keyboard. This image highlights the keyboard's vibrant rainbow backlighting and the dedicated button for turning the backlight on or off, along with indicators for mode, brightness, and speed adjustments.



Figure 2.2: 19 Keys Anti-Ghosting. This image illustrates the anti-ghosting capability of the keyboard, showing multiple keys being pressed simultaneously with light effects emanating from them, indicating precise registration of inputs.

3. Setup Guide

3.1 Package Contents

Before proceeding, ensure all items are present in the package:

- Redragon K521 Gaming Keyboard
- User Manual (this document)

3.2 Connecting the Keyboard

1. Locate an available USB port on your computer (PC, Mac), PS4/5, or Xbox console.
2. Plug the USB-C connector of the Redragon K521 keyboard into the chosen USB port.
3. The operating system will automatically detect and install the necessary drivers. This is a plug-and-play device, so no manual driver installation is required.
4. Once connected, the keyboard's rainbow LED backlighting will illuminate, indicating it is ready for use.

4. Operating Instructions

4.1 Backlight Control

The K521 keyboard offers various backlight customization options:

- **Turn On/Off Backlight:** Press the dedicated light button (often indicated by a light bulb icon) located near the top right of the keyboard to toggle the backlight on or off.
- **Adjust Brightness:** Use the **FN** key in combination with **Page Up (PGUP)** to increase brightness and **Page Down (PGDN)** to decrease brightness. There are four adjustable brightness levels.
- **Adjust Breathing Mode Speed:** Use the **FN** key in combination with the **'+'** or **'-'** keys (often on the numeric keypad) to adjust the speed of the breathing effect. There are three adjustable breathing modes.
- **Cycle Lighting Modes:** The keyboard may have pre-set lighting modes that can be cycled through by pressing the light button repeatedly or using specific FN key combinations (refer to keyboard legends for specific combinations if available).



Figure 4.1: Backlight Adjustment Controls. This image illustrates the key combinations for adjusting backlight speed (FN + +/-) and brightness (FN + PGUP/PGDN), as well as the dedicated light button for enabling/disabling backlight modes.

4.2 Multimedia Keys

The K521 keyboard features 12 multimedia combination keys accessible via the **FN** key. These functions are typically mapped to the F1-F12 keys.

Table 4.1: Multimedia Key Functions

Key Combination	Function

Key Combination	Function
FN + F1	Media Player
FN + F2	Volume -
FN + F3	Volume +
FN + F4	Mute
FN + F5	Stop
FN + F6	Previous Track
FN + F7	Play/Pause
FN + F8	Next Track
FN + F9	E-mail
FN + F10	Home Page
FN + F11	Lock Keyboard
FN + F12	Calculator



Figure 4.2: Multimedia Function Keys. This diagram illustrates the layout of the 12 multimedia functions, showing how they are activated by pressing the FN key in combination with the F1-F12 keys.

4.3 Anti-Ghosting and Win Lock

The 19-key anti-ghosting feature ensures that multiple simultaneous key presses are registered accurately, which is vital for fast-paced gaming.
To prevent accidental interruptions during gaming, you can lock the Windows key:

- **Lock/Unlock Windows Key:** Press **FN + Win** to disable or enable the Windows key. This prevents accidentally opening the Start menu during gameplay.

5. Maintenance

Proper care will extend the life of your Redragon K521 keyboard.

- **Cleaning:** Use a soft, dry cloth to wipe down the keyboard surface. For deeper cleaning, use compressed air to remove dust and debris from between the keys. Avoid using harsh chemicals or abrasive materials.
- **Spill Protection:** While the keyboard features spill-resistant protection, it is not fully waterproof. In case of a spill, immediately disconnect the keyboard from your device, wipe off any liquid, and allow it to air dry completely before reconnecting.
- **Storage:** When not in use for extended periods, store the keyboard in a cool, dry place away from direct sunlight and extreme temperatures.



Figure 5.1: Spill-resistant Protection. This image shows water droplets on the keyboard surface, illustrating its spill-resistant design which helps protect against accidental liquid damage.

6. Troubleshooting

If you encounter issues with your Redragon K521 keyboard, refer to the following common problems and solutions:

Table 6.1: Troubleshooting Guide

Problem	Possible Cause	Solution
Keyboard not responding	Loose USB connection; Incorrect USB port; Driver issue.	Ensure the USB cable is securely plugged into both the keyboard and the device. Try a different USB port. Restart your computer/console.
Backlight not working	Backlight turned off; Brightness set to minimum.	Press the dedicated light button to turn on the backlight. Increase brightness using FN + Page Up.
Keys not registering (ghosting)	Software conflict; Excessive simultaneous key presses beyond 19-key anti-ghosting limit.	Ensure no conflicting software is running. While the keyboard has 19-key anti-ghosting, extreme combinations might exceed this. Test individual keys.
Multimedia keys not working	FN key not pressed; Media player not active.	Ensure you are holding down the FN key while pressing the corresponding F-key. Verify your media player is running.
Windows key is disabled	Windows key lock is active.	Press FN + Win to toggle the Windows key lock.

If the problem persists after trying these solutions, please contact Redragon customer support for further assistance.

7. Specifications

Table 7.1: Product Specifications

Attribute	Detail
Model Name	K521
Brand	Redragon
Color	Black
Number of Keys	104
Keyboard Description	Gaming (Mechanical Feeling)
Connectivity Technology	USB-C (Wired)
Compatible Devices	Laptop, PC, PS4/5, Xbox
Special Feature	Backlit, Anti-Ghosting, Multimedia Keys, Spill-resistant
Item Weight	1.57 pounds (approx. 0.71 kg)
Package Dimensions	17.44 x 6.3 x 1.54 inches (approx. 44.3 x 16 x 3.9 cm)
Country of Origin	China

8. Warranty & Support

Redragon provides professional after-sales service and technical support for its products.

8.1 Warranty Information

Please refer to the warranty card included with your product or visit the official Redragon website for detailed warranty terms and conditions. The warranty typically covers manufacturing defects and malfunctions under normal use.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty claims, please contact Redragon customer support through their official website or the contact information provided in your product packaging.
Official Redragon Website: www.redragonusa.com

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Answered questions about this manual

How do I change the colors and backlight settings on the Redragon K521 keyboard?

The Redragon K521 features a "Rainbow LED" backlight, which means the colors are fixed in a rainbow pattern rather than being individually customizable (RGB). However, you can control the lighting effects, brightness, and modes...
Read full answer