Redragon K551-RGB-cr

Redragon K551 Mechanical Gaming Keyboard User Manual

Model: K551-RGB-cr

Overview Setup Operation Maintenance Troubleshooting Specifications Warranty & Support

1. Product Overview

The Redragon K551 Mechanical Gaming Keyboard is engineered for durability and responsiveness, featuring custom mechanical switches equivalent to Cherry Blue. This keyboard is designed to enhance your gaming and typing experience with its tactile feedback, audible click sound, and robust construction. It includes RGB LED backlighting with multiple modes and user-programmable options, along with anti-ghosting capabilities for optimal performance.



Figure 1.1: Redragon K551 Mechanical Gaming Keyboard, showcasing its full layout and RGB backlighting.

2. Setup Guide

2.1 Package Contents

- Redragon K551 Mechanical Gaming Keyboard
- Keycap Puller
- User Manual (this document)

2.2 System Requirements

- Operating System: Windows 10, Windows 8, Windows 7, Windows Vista, Windows XP. Limited Mac OS support.
- Available USB Port

2.3 Connecting the Keyboard

1. Unpack the Redragon K551 keyboard from its packaging.
2. Locate an available USB port on your computer.
3. Insert the USB connector of the keyboard firmly into the USB port.
4. The keyboard is plug-and-play; your operating system should automatically detect and install the necessary drivers.
5. The RGB backlighting will illuminate upon successful connection.



Figure 2.1: The Redragon K551 keyboard integrated into a PC gaming setup, demonstrating its wired connection.

3. Operating Instructions

3.1 Key Features

- **Mechanical Switches:** Equipped with custom mechanical switches (Cherry Blue equivalent) providing a tactile bump, audible click, and fast response for gaming and typing.
- **RGB Backlighting:** Features vibrant RGB LED backlighting with multiple lighting modes, adjustable brightness levels, and breathing speed. User-programmable options are available.
- **N-Key Rollover (Anti-Ghosting):** All 104 keys are conflict-free, ensuring that every keystroke is registered accurately, even during rapid, simultaneous key presses, crucial for gaming performance.
- **Multimedia Keys:** Includes 12 dedicated multimedia keys for quick access to volume control, media playback, and other functions. These are typically accessed via the Fn key combined with the F1-F12 keys.
- **Full Numeric Keypad:** A complete numeric keypad is integrated for efficient data entry and calculations.



Figure 3.1: A close-up view of the Outemu Blue mechanical key switches, highlighting their design for tactile and audible feedback.



Figure 3.2: The full numeric keypad, designed for quick number entry and calculations.



Figure 3.3: The keyboard in a gaming scenario, illustrating the benefit of full anti-ghosting for simultaneous key presses.

3.2 RGB Backlighting Control

The Redragon K551 offers extensive control over its RGB backlighting. Specific key combinations are used to cycle through modes, adjust brightness, and change breathing speed.

- **Lighting Modes:** The keyboard features 5 different lighting modes. Use the FN key combined with specific function keys (e.g., FN + INS, FN + HOME, FN + PGUP, FN + DEL, FN + END, FN + PGDN) to cycle through these modes. Refer to the keycap legends for exact combinations.
- **Brightness Adjustment:** Adjust the backlight brightness through 5 levels. Typically, this is done using FN + Up Arrow (increase) and FN + Down Arrow (decrease).
- **Breathing Speed:** Modify the speed of breathing effects using FN + Left Arrow (slower) and FN + Right Arrow (faster).
- **User Programmable Backlighting:** The keyboard supports user-defined RGB backlighting. Consult the Redragon official website or advanced user guides for detailed instructions on programming custom lighting profiles.



Figure 3.4: Examples of the RGB backlighting in various modes, demonstrating the customizable illumination options.

3.3 Indicator Lights

Above the numeric keypad, there are three indicator lights:

- **"1" Indicator:** Illuminates when the Num Lock function is active, enabling the numeric keypad.
- **"A" Indicator:** Illuminates when the Caps Lock function is active, indicating that all typed letters will be uppercase.
- **Arrow Indicator (or Scroll Lock):** Illuminates when the Scroll Lock function is active. Its specific function can vary depending on the application.

4. Maintenance and Care

4.1 General Cleaning

To ensure the longevity and optimal performance of your Redragon K551 keyboard, regular cleaning is recommended.

- **Dust Removal:** Use a can of compressed air to blow away dust and debris from between the keycaps.
- **Surface Cleaning:** Gently wipe the surface of the keyboard with a soft, slightly damp cloth. Avoid using harsh chemicals or abrasive materials.
- **Keycap Cleaning:** For deeper cleaning, you can remove the keycaps using the included keycap puller. Clean the keycaps with mild soap and water, ensuring they are completely dry before reattaching them.

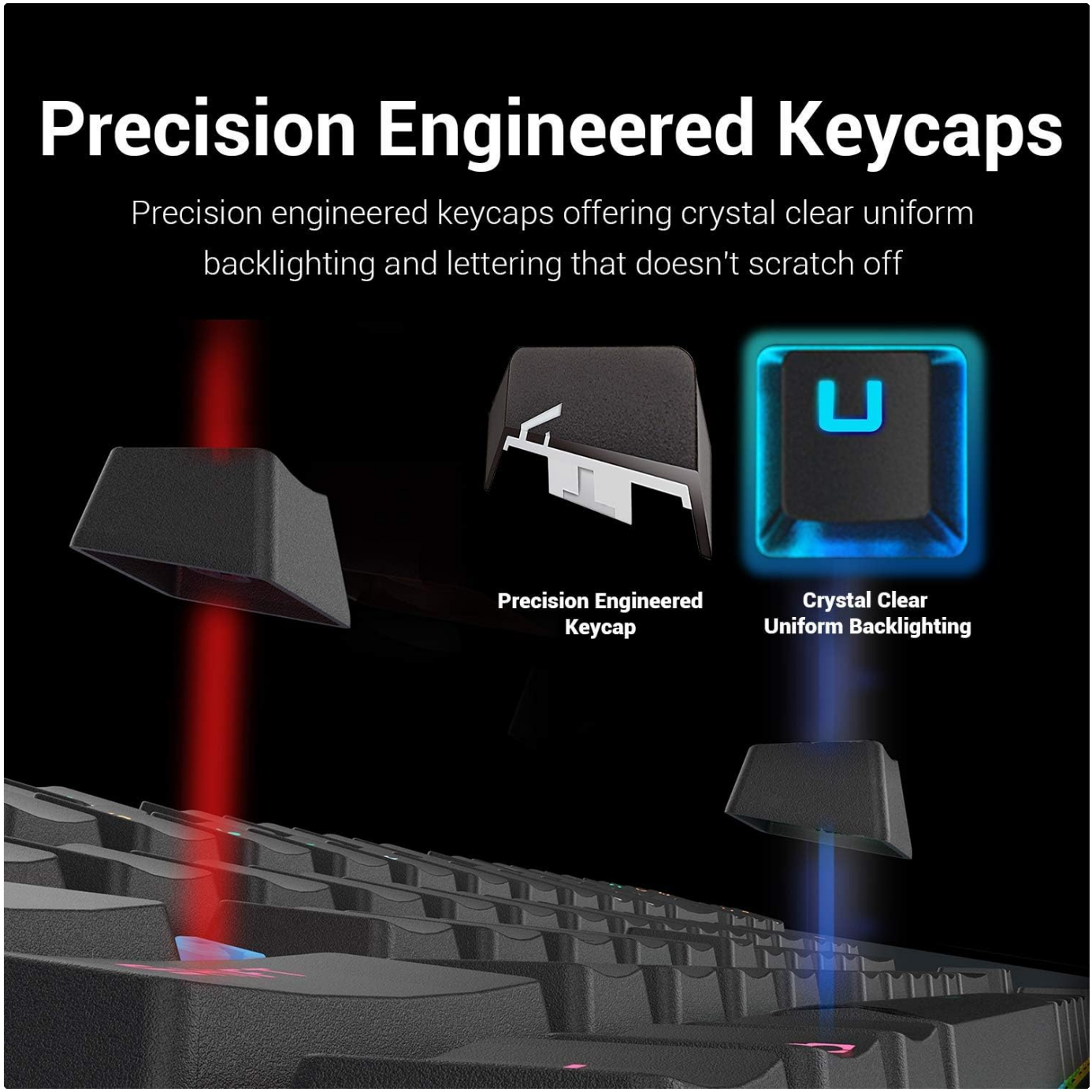


Figure 4.1: Illustration of the precision-engineered keycaps, designed for clear backlighting and durability, which can be removed for cleaning.

4.2 Dust-Proof Switches

The mechanical switches on the K551 keyboard are designed to be dust-proof, contributing to their longevity and consistent performance. While this design reduces dust ingress, regular cleaning as described above will further protect the switches.

5. Troubleshooting

If you encounter issues with your Redragon K551 keyboard, please refer to the following common troubleshooting steps:

5.1 Keyboard Not Responding

- **Check USB Connection:** Ensure the USB cable is securely plugged into both the keyboard and the computer's USB port. Try plugging it into a different USB port.
- **Restart Computer:** A simple restart of your computer can often resolve connectivity issues.
- **Test on Another Computer:** If possible, test the keyboard on another computer to determine if the issue is with the keyboard or your system.
- **Driver Reinstallation:** Although plug-and-play, sometimes reinstalling USB drivers can help. Go to Device Manager, locate the keyboard, uninstall it, and then restart your computer to allow it to reinstall automatically.

5.2 Backlighting Issues

- **Check Brightness Settings:** Ensure the brightness is not set to the lowest level. UseFN + Up Arrow to increase brightness.
- **Cycle Lighting Modes:** Try cycling through the different lighting modes using theFN + INS/HOME/PGUP/DEL/END/PGDN combinations.
- **Software Conflicts:** If you have any other keyboard or RGB control software installed, it might conflict with the keyboard's native lighting controls. Try temporarily disabling such software.

5.3 Keys Not Registering / Double Typing

- **Clean Under Keycaps:** Small debris or dust under the keycap or switch can cause issues. Use the keycap puller to remove the affected keycap and clean the area with compressed air.
- **Test Specific Keys:** Use an online keyboard tester to identify if specific keys are consistently failing or double-typing.

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

6. Technical Specifications

Model Number	K551-RGB-cr
Brand	Redragon
Connectivity Technology	Wired (USB)
Keyboard Type	Mechanical Gaming Keyboard
Switch Type	Custom Mechanical Switches (Cherry Blue equivalent)
Key Count	104 Keys
Backlighting	RGB LED Backlit (5 modes, 5 brightness levels, adjustable breathing speed, user programmable)
Anti-Ghosting	Full N-Key Rollover
Multimedia Keys	12 (accessed via Fn key)
Construction Material	Metal Alloy and ABS

Color	Black RGB LED Backlit
Product Dimensions	16.54 x 4.33 x 1.38 inches (420 x 110 x 35 mm)
Item Weight	2.79 pounds (1.27 kg)
Compatible Devices	PC (Windows 10/8/7/Vista/XP), Limited Mac OS, Gaming Console
Included Components	Keycap Puller
ASIN	B07WW4KQB5
Date First Available	September 3, 2020



Figure 6.1: Side profile of the keyboard, highlighting its durable metal alloy and ABS construction.

7. Warranty and Customer Support

7.1 Product Warranty

Specific warranty terms and conditions for the Redragon K551 Mechanical Gaming Keyboard may vary by region and retailer. Please refer to the warranty information provided with your product packaging or visit the official Redragon website for the most up-to-date warranty details.

7.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Redragon customer support. Contact information can typically be found on the official Redragon website or on your product packaging.
Redragon Official Website: www.redragonusa.com (or relevant regional site)

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