Redragon K686 PRO

Redragon K686 PRO 98 Keys Wireless Gasket RGB Gaming Keyboard

User Manual

Model: K686 PRO | Brand: Redragon

Introduction

Thank you for choosing the Redragon K686 PRO 98 Keys Wireless Gasket RGB Gaming Keyboard. This manual provides detailed instructions for setting up, operating, and maintaining your new keyboard. Please read this manual thoroughly before use to ensure optimal performance and longevity of your device.



Image: The Redragon K686 PRO keyboard, showcasing its compact 98-key layout and vibrant RGB backlighting. The keyboard features a dark gray body with lighter gray keycaps and a dedicated knob in the upper right corner.

Package Contents

Please verify that all items are present in the package:

- Redragon K686 PRO 98 Keys Wireless Gasket RGB Gaming Keyboard
- USB Cable (for wired connection and charging)
- Keycap/Switch Puller
- Spare Switches

Product Features

The Redragon K686 PRO keyboard incorporates several advanced features designed for enhanced gaming and typing experiences:

- **Gasket Design:** Utilizes precision-locked covers with gaskets to reduce noise and provide a flexible, cushioned typing feel.
- **3-Mode Connection:** Supports versatile connectivity via USB-C wired, Bluetooth (BT 3.0/5.0), and 2.4Ghz wireless modes.
- **Custom Leopard L Switches:** Pre-lubed linear switches offering smooth, consistent keystrokes. The hot-swappable sockets are compatible with most 3-pin and 5-pin mechanical switches.
- **5-Layer Noise Dampening:** Features multiple layers including 3.5mm PO foam, IXPE switch foam, PET sound pad, bottom socket foam, and a silicone bottom pad, along with a silicone gasket, to significantly reduce hollow noise and improve acoustics.
- **Tactical 98 Keys Layout:** A compact design that retains the functionality of a full-size keyboard while being 20% smaller. Features gradient PBT keycaps with side-printed legends and south-facing LEDs for optimal RGB illumination.
- **ONE-Knob Control:** A dedicated multi-function knob for easy adjustment of backlight brightness, media volume, play/pause, and RGB mode switching.
- **Pro Software Supported:** Allows for advanced customization including macro editing, RGB backlight effects, key redefinition, and music rhythm effects.



Image: An overhead view of the Redragon K686 PRO keyboard on a gaming desk setup, accompanied by icons highlighting its key features: Gasket Design, 5-Layer Noise Dampening, Custom Leopard L Switch, Gradient Side Printed Keycaps, 3-Mode Tech, 4000mAh Battery, Practical 98 Keys, and PRO Software.

Setup Guide

1. Initial Charging

Before first use, it is recommended to fully charge the keyboard. Connect the provided USB-C cable to the keyboard's USB-C port and the other end to a powered USB port on your computer or a USB wall adapter. The charging indicator will show the charging status.

2. Connection Modes

The K686 PRO supports three connection modes: USB-C wired, 2.4Ghz wireless, and Bluetooth. A switch on the back of the keyboard allows you to select the desired mode (2.4G, OFF, BT).



Image: A close-up view illustrating the three connectivity options of the Redragon K686 PRO keyboard: 2.4G wireless via a USB dongle, Bluetooth, and USB-C wired connection. The image highlights the switch on the keyboard's side for selecting between 2.4G, OFF, and BT modes.

2.1. USB-C Wired Connection

- Ensure the mode switch on the keyboard is set to "OFF".
- Connect the USB-C cable to the keyboard and your computer.
- The keyboard will be automatically recognized and ready for use.

2.2. 2.4Ghz Wireless Connection

- Locate the 2.4Ghz USB dongle, usually stored in a compartment on the keyboard.
- Plug the USB dongle into an available USB port on your computer.
- Set the mode switch on the keyboard to "2.4G".
- The keyboard should connect automatically. If not, press **Fn + 4** to initiate pairing.

2.3. Bluetooth Connection

- Set the mode switch on the keyboard to "BT".
- Press and hold **Fn + 1**, **Fn + 2**, or **Fn + 3** for 3-5 seconds to enter pairing mode for Bluetooth device 1, 2, or 3 respectively. The corresponding key's backlight will flash rapidly.
- On your computer or device, enable Bluetooth and search for new devices.
- Select "Redragon K686 PRO" (or similar name) from the list of available devices to pair.
- Once paired, the key's backlight will stop flashing and remain solid.

3. Operating System Compatibility Switch

The keyboard features a switch to toggle between Windows (WIN) and Mac (MAC) compatibility modes. Ensure this switch, located near the USB-C port, is set to your operating system for correct key mapping.

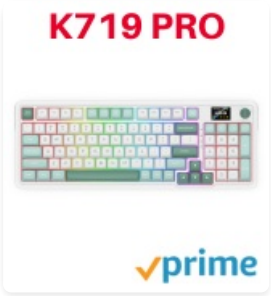


Image: A close-up of the Redragon K686 PRO keyboard's side, showing the physical switch for toggling between Windows (WIN) and Mac (MAC) operating system modes.

Operating Instructions

1. Basic Keyboard Functions

The K686 PRO functions as a standard 98-key keyboard. All alphanumeric keys, function keys (F1-F12), and navigation keys operate as expected. The integrated numeric keypad provides full numerical input.



Image: A diagram illustrating the tactical 98-key layout of the Redragon K686 PRO keyboard, highlighting its compact size (15.4 inches wide, 5.5 inches deep) and indicating that it is 20% more compact than a full-size keyboard while retaining Numpad and Arrow Keys.

2. Knob Control

The multi-function knob located in the upper right corner provides quick access to backlight and media controls:

- **Rotate Knob:**
  - In Backlight Mode: Adjusts backlight brightness.
  - In Media Mode: Adjusts volume.
- **Press Knob:**
  - Short Press: Toggles between Backlight Mode and Media Mode.
  - Long Press: Mutes/unmutes audio (in Media Mode).



Image: A detailed view of the multi-function knob on the Redragon K686 PRO keyboard, illustrating its various controls: rotating for brightness/volume adjustment, and pressing to switch RGB modes or mute/unmute audio.

3. RGB Backlighting

The keyboard features dynamic RGB backlighting with various effects. Use the knob or the dedicated software to customize lighting.

- **Changing RGB Modes:** Short press the knob to cycle through different preset RGB lighting effects.
- **Adjusting Brightness:** Rotate the knob when in Backlight Mode to increase or decrease brightness.
- **South-Facing LEDs:** The south-facing LED design ensures optimal illumination, especially with side-printed keycaps.



Image: A wide shot of the Redragon K686 PRO keyboard displaying its full RGB lighting capabilities, with a gradient of colors across the keys, emphasizing the visual appeal of the south-facing LEDs and gradient PBT keycaps.

4. Pro Software Customization

For advanced customization, download the Redragon Pro Software from the official Redragon website. The software allows you to:

- Create and edit macros for complex key sequences.
- Customize RGB backlighting with a wide range of colors and effects.
- Redefine individual key functions.
- Apply music rhythm effects to the lighting.

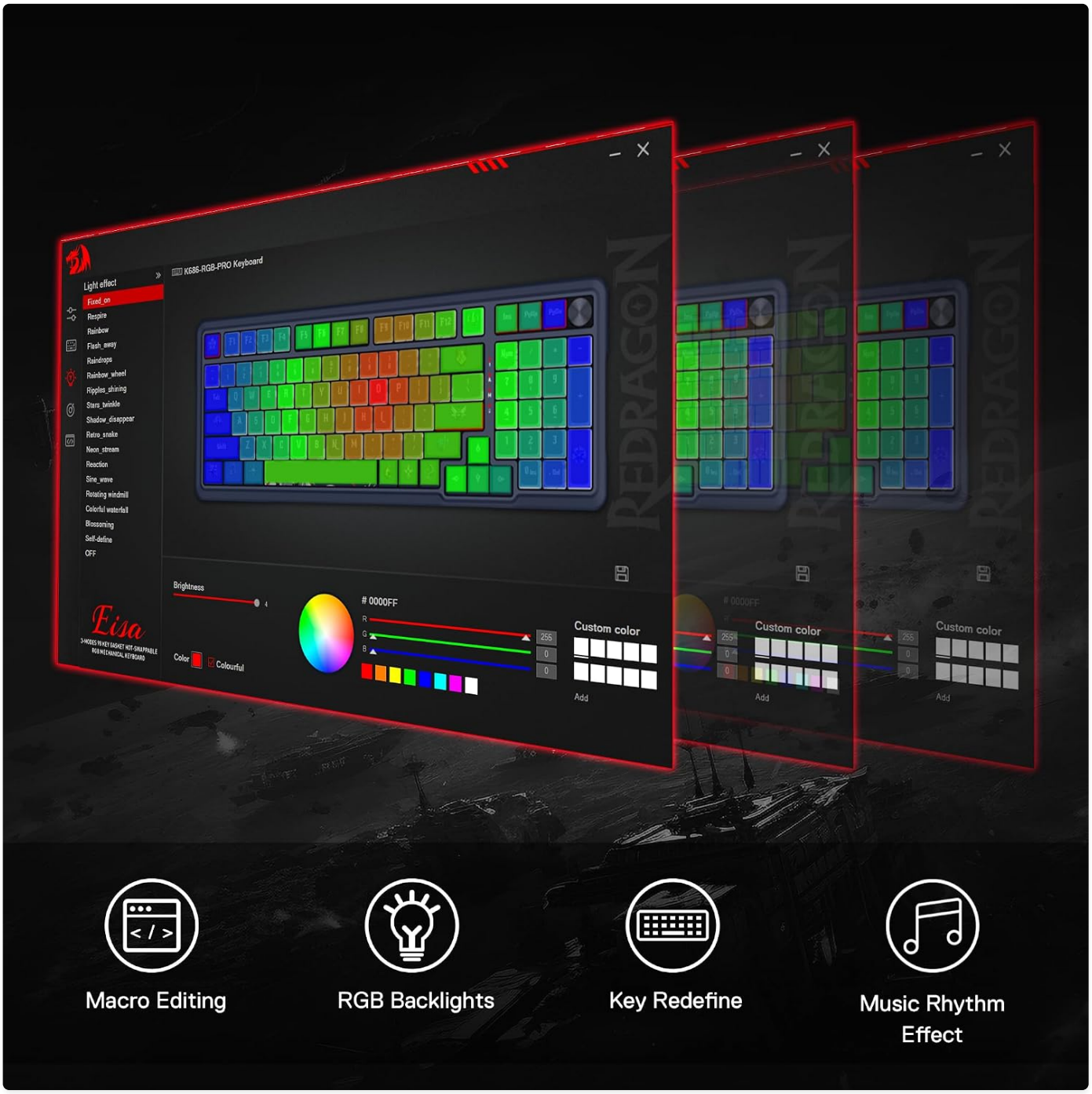


Image: A screenshot of the Redragon software interface, demonstrating options for macro editing, RGB backlight customization, key redefinition, and music rhythm effects, indicating the extensive control users have over the keyboard's functions and aesthetics.

MAINTENANCE

1. Cleaning the Keyboard

To maintain the keyboard's appearance and functionality:

- 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 the keycaps and chassis.
- For dust and debris between keycaps, use compressed air.
- Avoid using harsh chemicals or abrasive materials.

2. Hot-Swappable Switches and Keycaps

The K686 PRO features hot-swappable switches, allowing you to change them without soldering. Use the provided

keycap/switch puller for safe removal and installation.



Image: A close-up of the Redragon K686 PRO keyboard with several keycaps and switches removed, revealing the hot-swappable sockets and the internal structure. The image also shows individual Leopard L switches and their specifications (actuation travel, actuation force).

- **Removing Keycaps:** Gently hook the keycap puller onto the keycap and pull straight up.
- **Removing Switches:** Use the switch puller to grip the top and bottom clips of the switch and pull straight up.
- **Installing Switches:** Align the pins of the new switch with the holes on the PCB and press down firmly until it clicks into place. Ensure pins are not bent.
- **Installing Keycaps:** Align the keycap with the switch stem and press down firmly.

Troubleshooting

Problem	Possible Solution

Problem	Possible Solution
Keyboard not responding (wired)	• Ensure the USB-C cable is securely connected to both the keyboard and the computer. • Try a different USB port on your computer. • Ensure the mode switch on the keyboard is set to "OFF" or the correct wired mode if applicable. • Test the keyboard on another computer.
Keyboard not connecting (2.4Ghz wireless)	• Ensure the 2.4Ghz USB dongle is properly inserted into a USB port. • Set the mode switch on the keyboard to "2.4G". • Press **Fn + 4** to re-pair the keyboard with the dongle. • Ensure the keyboard battery is charged. • Avoid sources of interference (e.g., other wireless devices).
Keyboard not connecting (Bluetooth)	• Ensure the mode switch on the keyboard is set to "BT". • Press and hold **Fn + 1/2/3** to enter pairing mode. • Ensure Bluetooth is enabled on your device and it's discoverable. • Remove previous pairings of the keyboard from your device's Bluetooth settings and try pairing again. • Ensure the keyboard battery is charged.
RGB lighting not working or dim	• Ensure the keyboard battery is charged. • Rotate the knob to increase brightness. • Check the Redragon Pro Software settings for lighting effects and brightness. • Perform a factory reset (refer to software or Redragon support for specific instructions).
Keys not registering or double-typing	• Ensure the switch is properly seated in its socket. Remove and re-insert the switch. • Try replacing the problematic switch with one of the spare switches provided. • Clean any debris around or under the keycap/switch. • Update keyboard firmware via the Redragon Pro Software.

SPECIFICATIONS

Feature	Detail
Model	K686 PRO
Layout	98 Keys (Tactical Layout)
Connectivity	USB-C Wired, 2.4Ghz Wireless, Bluetooth (BT 3.0/5.0)

Feature	Detail
Switch Type	Custom Leopard L Linear Switches (Hot-Swappable)
Keycaps	Gradient PBT Keycaps with Side-Printed Legends
Backlighting	RGB, South-Facing LEDs
Noise Dampening	5-Layer System (PO foam, IXPE switch foam, PET sound pad, bottom socket foam, silicone bottom pad, silicone gasket)
Control Knob	Multi-function (Brightness, Volume, RGB Mode)
Battery	1 Lithium Polymer battery required
Battery Capacity	4000mAh
Dimensions (Package)	16.97 x 7.48 x 2.4 inches
Item Weight	2.49 pounds
Compatible Devices	PC, Laptop, Tablet

Warranty and Support

Redragon products typically come with a manufacturer's warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Redragon website. If you encounter any issues or require technical assistance, please contact Redragon customer support through their official channels.
Official Redragon Website: www.redragonusa.com

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