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› [Redragon](#) /

› Redragon K580 VATA RGB LED Backlit Mechanical Gaming Keyboard User Manual

Redragon K580

Redragon K580 VATA RGB Mechanical Gaming Keyboard User Manual

Model: K580 | Brand: Redragon

INTRODUCTION

This manual provides comprehensive instructions for the Redragon K580 VATA RGB Mechanical Gaming Keyboard. It covers setup, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your device. Please read this manual thoroughly before using the keyboard.



Figure 1: Redragon K580 VATA RGB Mechanical Gaming Keyboard overview.

PACKAGE CONTENTS

Ensure all items are present in the package:

- Redragon K580 VATA RGB Mechanical Gaming Keyboard
- Keycap Puller
- Switch Puller
- Spare Mechanical Switches (typically 8)
- User Manual (this document)

SETUP

Connecting the Keyboard

1. Locate an available USB port on your computer.
2. Plug the USB connector of the Redragon K580 keyboard into the USB port.
3. The operating system will automatically detect and install the necessary drivers. This process may take a few moments.
4. Once installation is complete, the keyboard's RGB lighting will illuminate, indicating it is ready for use.

No additional software is required for basic functionality, but Redragon provides optional software for advanced customization of lighting and macros.

OPERATING INSTRUCTIONS

Dedicated Macro Keys (G1-G5)

The Redragon K580 features five dedicated macro keys (G1-G5) located on the top left of the keyboard. These keys allow for on-the-fly macro recording without the need for software.

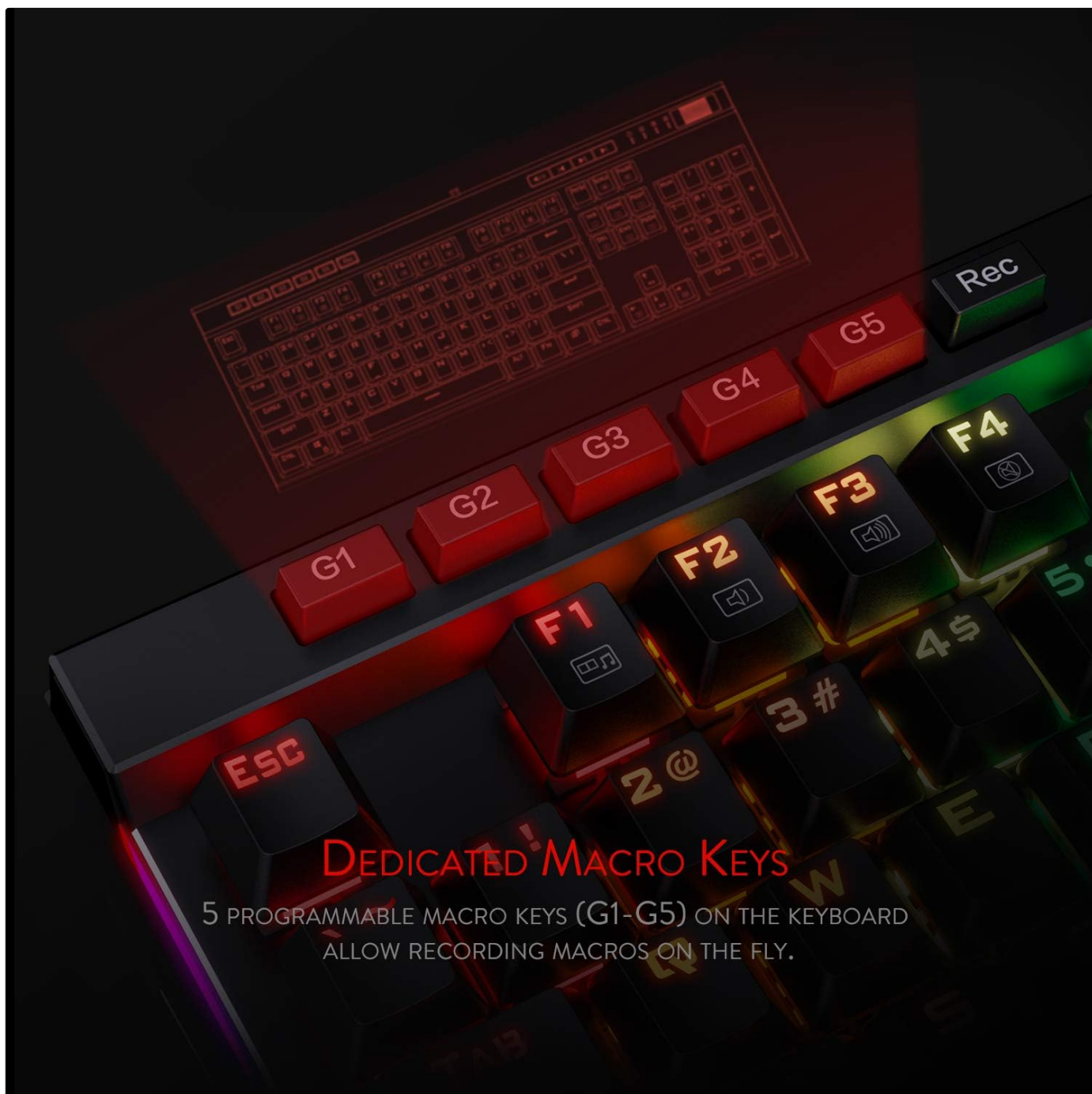


Figure 2: Dedicated Macro Keys (G1-G5) for on-the-fly recording.

On-the-Fly Macro Recording:

1. Press the **REC** button (located near G5). The indicator light will start blinking.
2. Press the desired G-key (G1-G5) you wish to assign the macro to. The indicator light will blink faster.
3. Type the sequence of keys you want to record.
4. Press the **REC** button again to save the macro. The indicator light will stop blinking.

To use a recorded macro, simply press the assigned G-key.

Dedicated Media Controls and Volume Scroll Bar

The keyboard features dedicated media control buttons (Play/Pause, Previous, Next) and a multi-function scroll bar for convenient audio and lighting adjustments.

DEDICATED MEDIA CONTROLS

THE CONTROLS LET YOU QUICKLY PLAY, PAUSE, AND SKIP THE MUSIC RIGHT FROM THE KEYBOARD WITHOUT INTERRUPTING YOUR GAME.



Figure 3: Dedicated media control buttons for audio playback.

DEDICATED SCROLL BAR

THE BAR IS DESIGNED AT TOP RIGHT ALLOWS
ADJUSTMENT OF SYSTEM VOLUME / KEYBOARD
BACKLIGHT BRIGHTNESS.



Figure 4: Multi-function scroll bar for volume and backlight brightness control.

- **Volume Control:** Rotate the scroll bar to adjust system volume.
- **Backlight Brightness Control:** Press the scroll bar to switch its function to backlight brightness adjustment, then rotate to change brightness. Press again to revert to volume control.

RGB Backlighting and Side Lighting

The K580 VATA features per-key RGB backlighting and five modes of RGB side edge lighting, offering extensive customization options.



Figure 5: RGB side lighting on the Redragon K580 keyboard.

Adjusting Backlight Modes:

The keyboard supports various preset lighting effects. 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 different lighting modes and effects.

Customizing Lighting:

For advanced lighting customization, including per-key lighting and custom profiles, download the official Redragon software from the Redragon website. The software allows you to save your preferred settings directly to the keyboard's onboard memory.

Hot-Swappable Mechanical Switches

The Redragon K580 features hot-swappable sockets, allowing you to easily change mechanical switches without soldering. This provides flexibility for customizing typing feel and replacing faulty switches.

Upgraded Hot-swappable Board

3/5-pin, 99.8%+ Compatible Sockets



Figure 6: Hot-swappable switch sockets on the Redragon K580.

Replacing Switches:

1. Using the provided keycap puller, gently remove the keycap from the switch you wish to replace.
2. Insert the switch puller tool onto the two clips on the top and bottom of the switch.
3. Squeeze the clips and gently pull the switch straight up to remove it from the PCB.
4. Align the pins of the new switch with the holes on the PCB. Ensure the pins are straight to avoid bending.
5. Gently push the new switch into the socket until it clicks into place.
6. Replace the keycap.

The K580 supports 3-pin and 5-pin mechanical switches, offering broad compatibility.

MAINTENANCE

Cleaning the Keyboard

- Disconnect the keyboard from your computer before cleaning.
- Use a can of compressed air to remove dust and debris from between the keycaps.
- For surface cleaning, wipe the keyboard with a soft, slightly damp cloth. Avoid excessive moisture.
- For deeper cleaning, keycaps can be removed using the provided keycap puller and cleaned with mild soap and water. Ensure keycaps are completely dry before reattaching.

General Care

- Avoid spilling liquids on the keyboard. While the K580 has some water resistance, it is not fully waterproof.
- Do not expose the keyboard to extreme temperatures or direct sunlight for prolonged periods.
- Handle the USB cable carefully to prevent damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Keyboard not responding	Loose USB connection; Driver issue; Computer port issue.	Ensure USB cable is securely plugged in. Try a different USB port. Restart your computer.
RGB lighting not working	Lighting mode off; Software conflict.	Press FN + lighting control keys to cycle modes. Check Redragon software settings.
Macro keys not recording/playing back	Incorrect recording procedure; Software conflict.	Review the "On-the-Fly Macro Recording" section. Ensure no other software is interfering.
Specific key not registering	Faulty switch; Debris under keycap.	Remove keycap and clean. If issue persists, replace the switch using the hot-swap instructions.

SPECIFICATIONS

Feature	Detail
Model	K580 VATA
Switch Type	Mechanical (Blue Switches, Hot-Swappable)
Connectivity	Wired USB
Backlighting	RGB (Per-key and Side Lighting)
Macro Keys	5 Dedicated (G1-G5) with On-the-Fly Recording
Media Controls	Dedicated buttons and Multi-function Scroll Bar
Material	Acrylonitrile Butadiene Styrene, Aluminum
Dimensions (L x W x H)	15.75" x 5.91" x 0.98" (400mm x 150mm x 25mm)
Weight	2.65 pounds (1.2 kg)
Compatibility	PC (Windows), Gaming Consoles (limited functionality)



Figure 7: Product compliance markings.

WARRANTY AND SUPPORT

Redragon products typically come with a limited warranty. Please refer to the warranty card included with your product or visit the official Redragon website for detailed warranty terms and conditions.

For technical support, driver downloads, or further assistance, please visit the official Redragon support page:

[Redragon Official Support](#)

You may also contact Redragon customer service directly through their website for specific inquiries.

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

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