

Turtle Beach TBK-2002-01-US

Turtle Beach Vulcan II TKL Pro Magnetic Mechanical RGB Gaming Keyboard User Manual

Model: TBK-2002-01-US

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Turtle Beach Vulcan II TKL Pro Magnetic Mechanical RGB Gaming Keyboard. This keyboard is designed for high-performance gaming and offers extensive customization options through its analog Hall-Effect switches and accompanying software.



Image: The Turtle Beach Vulcan II TKL Pro keyboard, showcasing its tenkeyless design, RGB lighting, and included palm rest.

PACKAGE CONTENTS

Please verify that all items are present in your product packaging:

- Turtle Beach Vulcan II TKL Pro Keyboard
- USB-C to USB-A Cable
- Palm Rest
- Quick Start Guide



Image: Visual representation of the items included in the Vulcan II TKL Pro package: the keyboard, USB-C to USB-A cable, and palm rest.

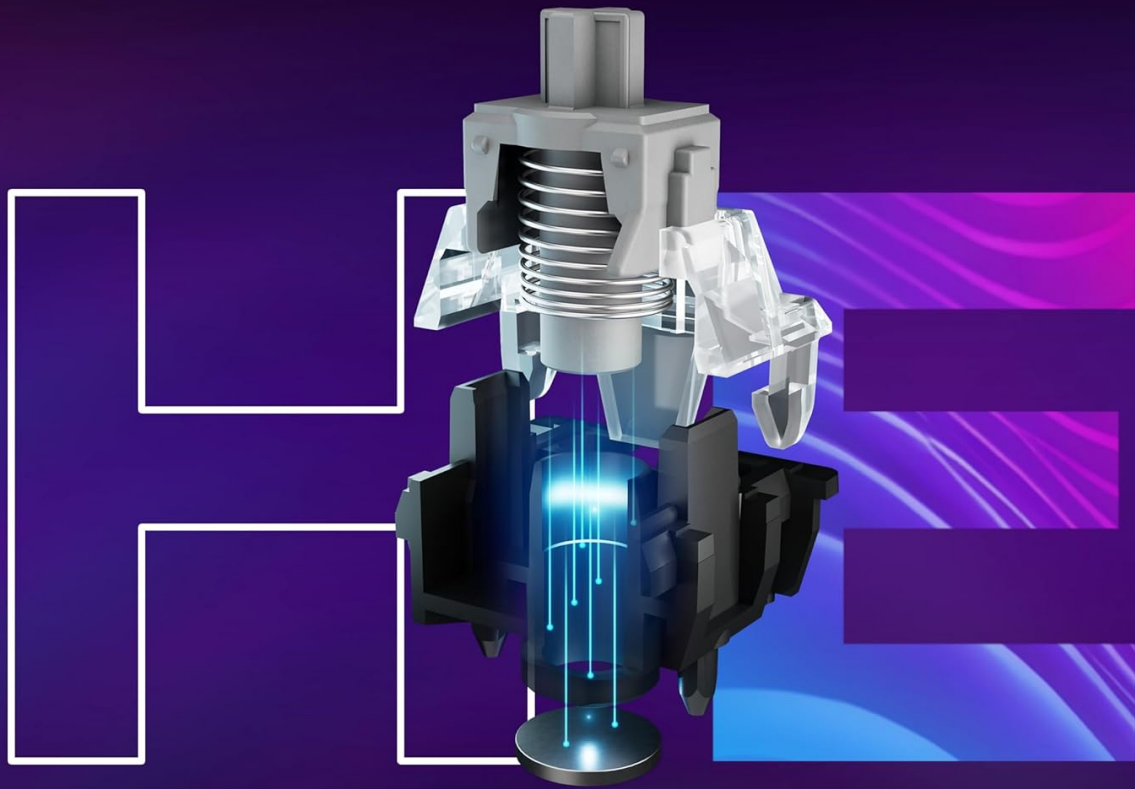
SETUP

1. **Connect the Keyboard:** Insert the USB-C end of the provided cable into the port on the back of the Vulcan II TKL Pro keyboard. Connect the USB-A end to an available USB port on your PC or laptop.
2. **Attach the Palm Rest:** Align the palm rest with the front edge of the keyboard and attach it for ergonomic support during use.
3. **Install Swarm II Software:** For full customization and access to advanced features, download and install the Turtle Beach Swarm II desktop software from the official Turtle Beach website. This software allows you to adjust RGB lighting, key actuation points, assign macros, and more.
4. **Initial Configuration:** Once the software is installed, launch it to configure your keyboard settings, including lighting effects, key assignments, and actuation preferences.

KEY FEATURES AND OPERATION

Analog Hall-Effect Magnetic Switches

The Vulcan II TKL Pro features ultra-responsive magnetic switches, pre-lubed for smooth key presses and rated for a 150 million click lifecycle. This Hall-Effect technology enables advanced features such as Rapid Trigger and adjustable multi-point actuation.



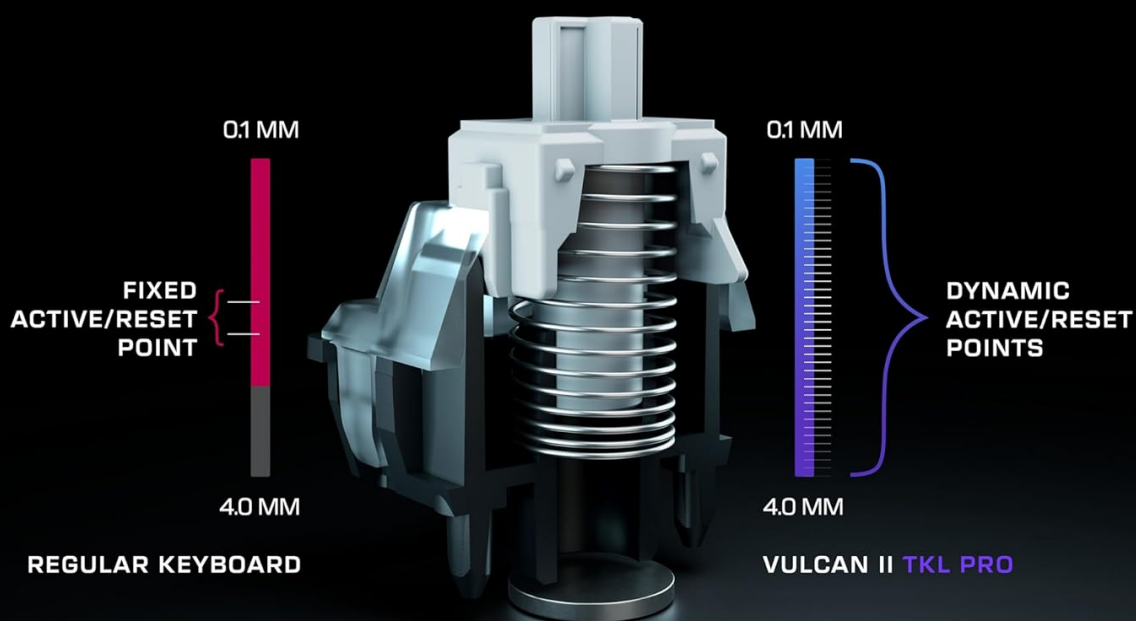
ANALOG HALL-EFFECT MAGNETIC SWITCHES

Ultra-responsive magnetic switches are rated at a 150M click lifecycle and give you silky smooth key presses.

Image: A cutaway diagram of the Analog Hall-Effect Magnetic Switch, showing the magnetic sensor and the mechanism that allows for precise actuation detection.

Rapid Trigger Performance

The Rapid Trigger setting eliminates downtime between key presses, allowing for continuous and repeated key actuation with minimal finger lifting. This feature enhances movement control, responsiveness, and aiming speed in games.



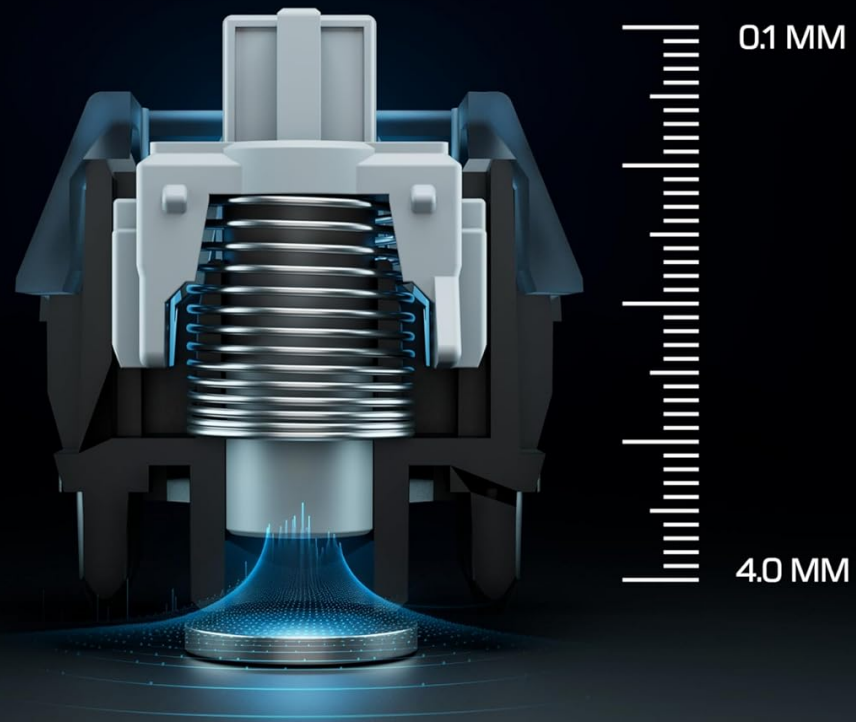
RAPID TRIGGER PERFORMANCE

Eliminates downtime between key presses, so you can continuously and repeatedly repress, for between movement control, responsiveness and faster aiming.

Image: A comparison diagram showing how Rapid Trigger allows for dynamic active/reset points (0.1mm to 4.0mm) on the Vulcan II TKL Pro, unlike regular keyboards with fixed points, enabling faster repeated inputs.

Per Key Sensitivity Adjustment

Adjust the actuation point of each key individually or globally, from 0.1mm to 4mm. Shorter travel provides faster response for quick actions, while longer travel allows for more deliberate and precise control. Each key supports 40 preset heights and up to three inputs per key, configurable via the keyboard or Swarm II software.



PER KEY SENSITIVITY ADJUSTMENT

Adjust the actuation point of every key for faster response, and more precise control.

Image: A detailed diagram illustrating the adjustable actuation range of the key switches, from 0.1mm to 4.0mm, allowing for customized sensitivity.

AIMO Intelligent RGB Lighting

AIMO lighting technology provides smooth and vibrant RGB lighting effects with double the refresh rate of standard gaming keyboards. It can sync with other compatible AIMO-enabled products. Per-key RGB customization is available, and five on-board profiles allow saving custom lighting effects and key reassignments.



Image: The Vulcan II TKL Pro keyboard and a compatible gaming mouse displaying synchronized, vibrant AIMO Intelligent RGB lighting effects.

Advanced Customization with Swarm II Software

The Swarm II desktop software is essential for unlocking the full potential of your keyboard. It allows for comprehensive adjustments including RGB lighting, assigning up to three different inputs per key, adjusting key actuation points, enabling Rapid Trigger, and recording/assigning macro functions. It also supports controller emulator features for analog stick and trigger control in games.

ADVANCED CUSTOMIZATION WITH SWARM™ II SOFTWARE

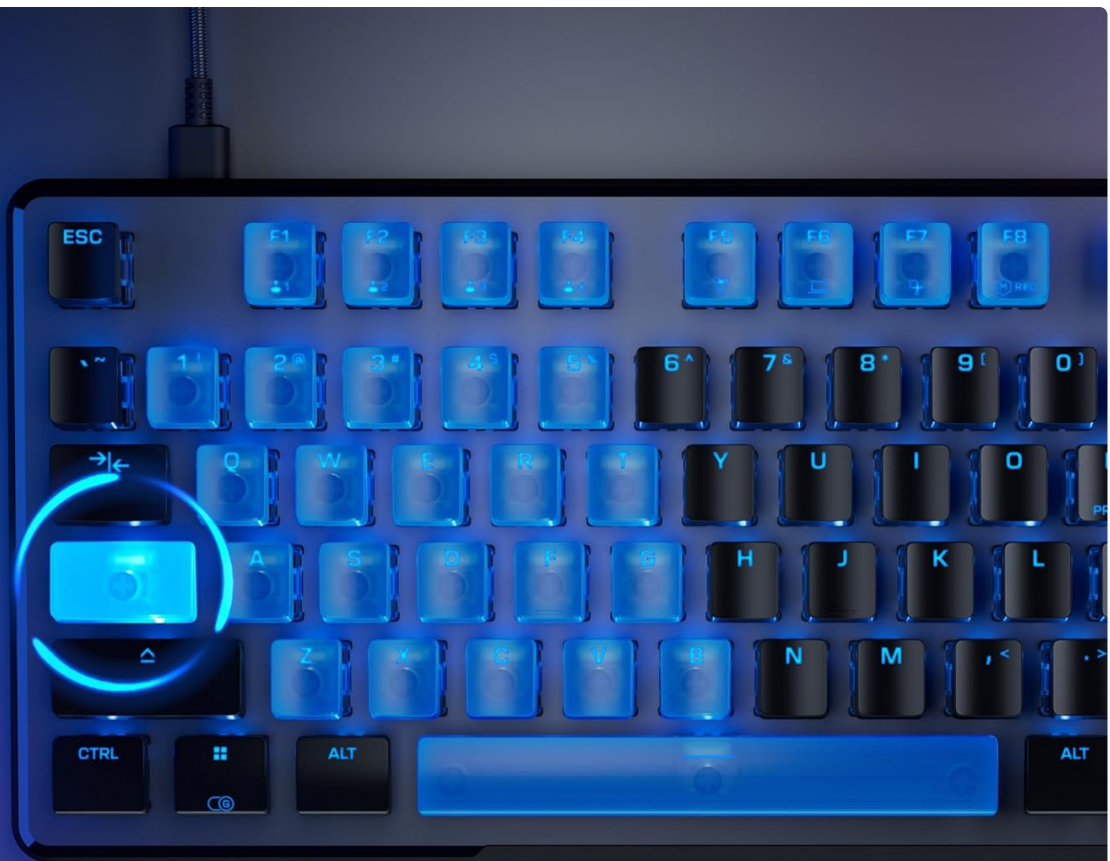
Enhance your keyboard performance and aesthetics
with the Swarm™ II desktop software.



Image: A monitor displaying the Turtle Beach Swarm II software interface, demonstrating the extensive customization options available for the Vulcan II TKL Pro keyboard.

Easy-Shift [+] Button Duplicator

This technology adds a secondary function to compatible keys. By holding down a designated modifier key, you can instantly access a second layer of commands, which is fully customizable within the Swarm II software.



EASY-SHIFT[+]™ BUTTON DUPLICATOR

Our Easy-Shift[+]™ technology adds
a secondary function to compatible keys.

Image: A close-up of the keyboard with a key highlighted, illustrating the Easy-Shift [+] feature that allows for a secondary function on compatible keys.

Advanced Anti-Ghosting

Optimized for gamers, the advanced anti-ghosting technology ensures that every keystroke is reliably registered, even when multiple keys are pressed simultaneously, preventing missed inputs during intense gaming sessions.

3rd Party Keycap Compatible

The Vulcan II TKL Pro comes with T-shaped ABS keycaps and is designed to be fully compatible with third-party keycaps, allowing users to further customize their keyboard's aesthetic and feel.

Tenkeyless Form Factor

The compact tenkeyless (TKL) design removes the numeric keypad, providing more desk space for mouse movement and allowing for a more natural and comfortable playing position, which can improve aiming accuracy in games.

Push-to-Mute Volume Wheel

A built-in dial allows for convenient on-the-fly control of master volume. Simply push the dial to quickly mute or unmute audio.

Durable Design

The keyboard features a sand-blasted anodized aluminum top plate for structural integrity and resistance to wear and tear. The double kickstand design provides stable positioning, and the included soft palm rest ensures comfort during extended use.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe down the keyboard surface. For deeper cleaning, gently remove keycaps (if comfortable) and use compressed air to clear debris from beneath. Avoid using harsh chemicals or abrasive materials.
- **Cable Care:** Ensure the USB cable is not excessively bent or kinked to prevent damage.
- **Storage:** When not in use for extended periods, store the keyboard in a clean, dry environment away from extreme temperatures.

TROUBLESHOOTING

Problem	Possible Solution
Keyboard not responding	Ensure the USB cable is securely connected to both the keyboard and the computer. Try connecting the keyboard to a different USB port. Restart your computer.
RGB lighting not working or incorrect	Ensure the Swarm II software is installed and running. Check lighting settings within the Swarm II software. Update the keyboard firmware via Swarm II.
Keys not registering or double-typing	Clean around the affected key with compressed air. Adjust the actuation point for the specific key in Swarm II. Ensure the latest drivers and firmware are installed.

Problem	Possible Solution
Swarm II software not detecting keyboard	Reinstall the Swarm II software. Ensure your operating system is up to date. Temporarily disable any antivirus or firewall software that might be interfering.

SPECIFICATIONS


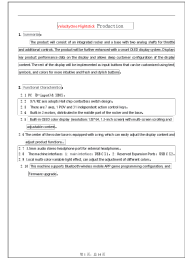


Feature	Detail
Model Number	TBK-2002-01-US
Connectivity	USB-A (Wired)
Switch Type	Analog Hall-Effect Magnetic Switches
Actuation Point	Adjustable from 0.1mm to 4.0mm
Keycap Compatibility	3rd Party Keycap Compatible (T-shaped ABS keycaps)
Lighting	AIMO Intelligent RGB (Per-key customizable)
Form Factor	Tenkeyless (TKL)
On-Board Profiles	5
Weight	1.38 pounds (approx. 0.62 kg)
Dimensions (LxWxH)	14.41 x 8.58 x 1.26 inches (approx. 36.6 x 21.8 x 3.2 cm)
Power Source	USB Powered

WARRANTY AND SUPPORT

For detailed warranty information and technical support, please refer to the Quick Start Guide included with your product or visit the official Turtle Beach support website. Product registration may be required to activate your warranty.

Online Support: www.turtlebeach.com/pages/support

Related Documents

	<p>Turtle Beach Vulcan II Mechanical Gaming Keyboard Quick Start Guide</p> <p>A quick start guide for the Turtle Beach Vulcan II mechanical gaming keyboard, detailing its features, specifications, package contents, and setup instructions in multiple languages.</p>
	<p>Turtle Beach VelocityOne Flightstick User Manual</p> <p>Comprehensive user manual for the Turtle Beach VelocityOne Flightstick, detailing its features, setup, operation, settings, and compliance information for PC and XBOX gaming.</p>
	<p>Turtle Beach Impact 500 Gaming Keyboard Quick Start Guide</p> <p>Concise guide for setting up the Turtle Beach Impact 500 gaming keyboard, including system requirements and regulatory compliance information.</p>
	<p>Turtle Beach ATOM Controller Quick Start Guide</p> <p>Concise guide for setting up and using the Turtle Beach ATOM controller, covering controls, smartphone attachment, power, Bluetooth pairing, charging, and regulatory information.</p>