ATTACK SHARK R82HE

ATTACK SHARK R82HE Rapid Trigger Wired Mechanical Gaming Keyboard User Manual

Model: R82HE

1. INTRODUCTION

The ATTACK SHARK R82HE is a high-performance 75% wired mechanical gaming keyboard designed for competitive gaming and efficient daily use. It features advanced Hall Effect magnetic switches, an 8,000Hz polling rate, and rapid trigger technology for precise and responsive input. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your R82HE keyboard.

Image 1.1: Overview of the ATTACK SHARK R82HE keyboard highlighting key performance features like 8KHz polling rate and 0.08ms latency.

2. SETUP

2.1 Package Contents

- ATTACK SHARK R82HE Mechanical Gaming Keyboard
- USB-C Cable
- Keycap Puller
- Switch Puller
- User Manual

2.2 Connecting the Keyboard

1. Connect the provided USB-C cable to the USB-C port on the keyboard.
2. Connect the other end of the USB-C cable to an available USB port on your computer (PC or Mac).
3. The keyboard will be automatically recognized by your operating system.

2.3 Software Installation (Web Driver)

For full customization of features such as Rapid Trigger, actuation points, RGB lighting, macros, and more, access the web-based software. Refer to the official ATTACK SHARK website for the direct link to the web driver. No local installation is required.
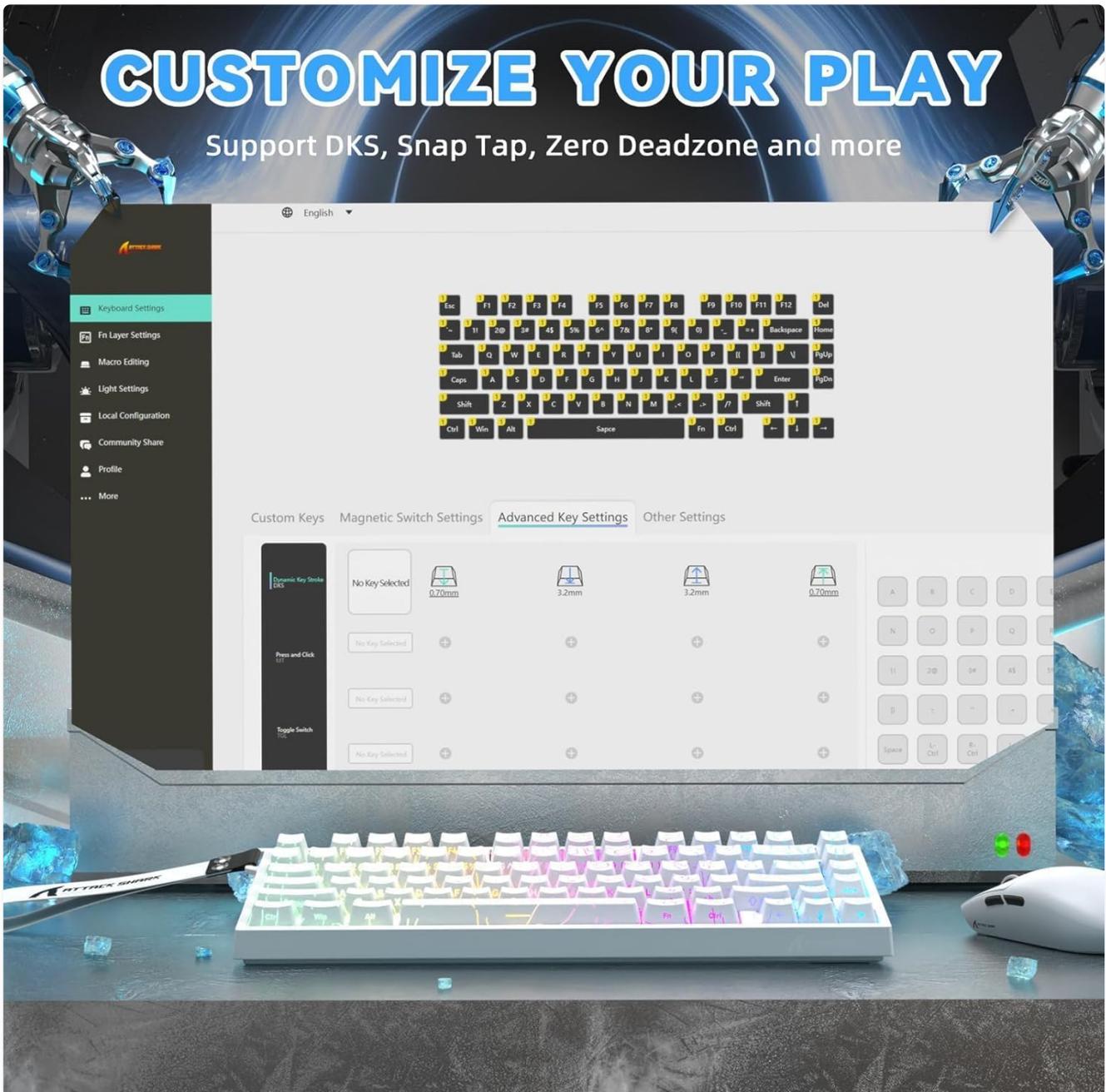

Image 2.1: The web-based software interface for customizing keyboard settings, including key functions and advanced features.

3. OPERATING THE KEYBOARD

3.1 Basic Functions

- The R82HE features a 75% layout with 80 keys, including a dedicated arrow key cluster.
- All standard alphanumeric and function keys operate as expected.

3.2 RGB Lighting Control

The keyboard features a full RGB backlight system with multiple preset lighting modes. You can adjust the lighting directly

on the keyboard using the following key combinations:

- **Fn + ↑ (Up Arrow)**: Increase Backlight Brightness
- **Fn + ↓ (Down Arrow)**: Decrease Backlight Brightness
- **Fn + ← (Left Arrow)**: Decrease Backlight Speed
- **Fn + → (Right Arrow)**: Increase Backlight Speed
- **Fn + Del**: Switch Light Mode
- **Fn + End**: Switch Light Color
- **Fn + PgUp**: Light On/Off

Further customization of colors, effects, brightness, and speed is available through the web-based software.

Image 3.1: RGB lighting effects and on-board control shortcuts for the R82HE keyboard.

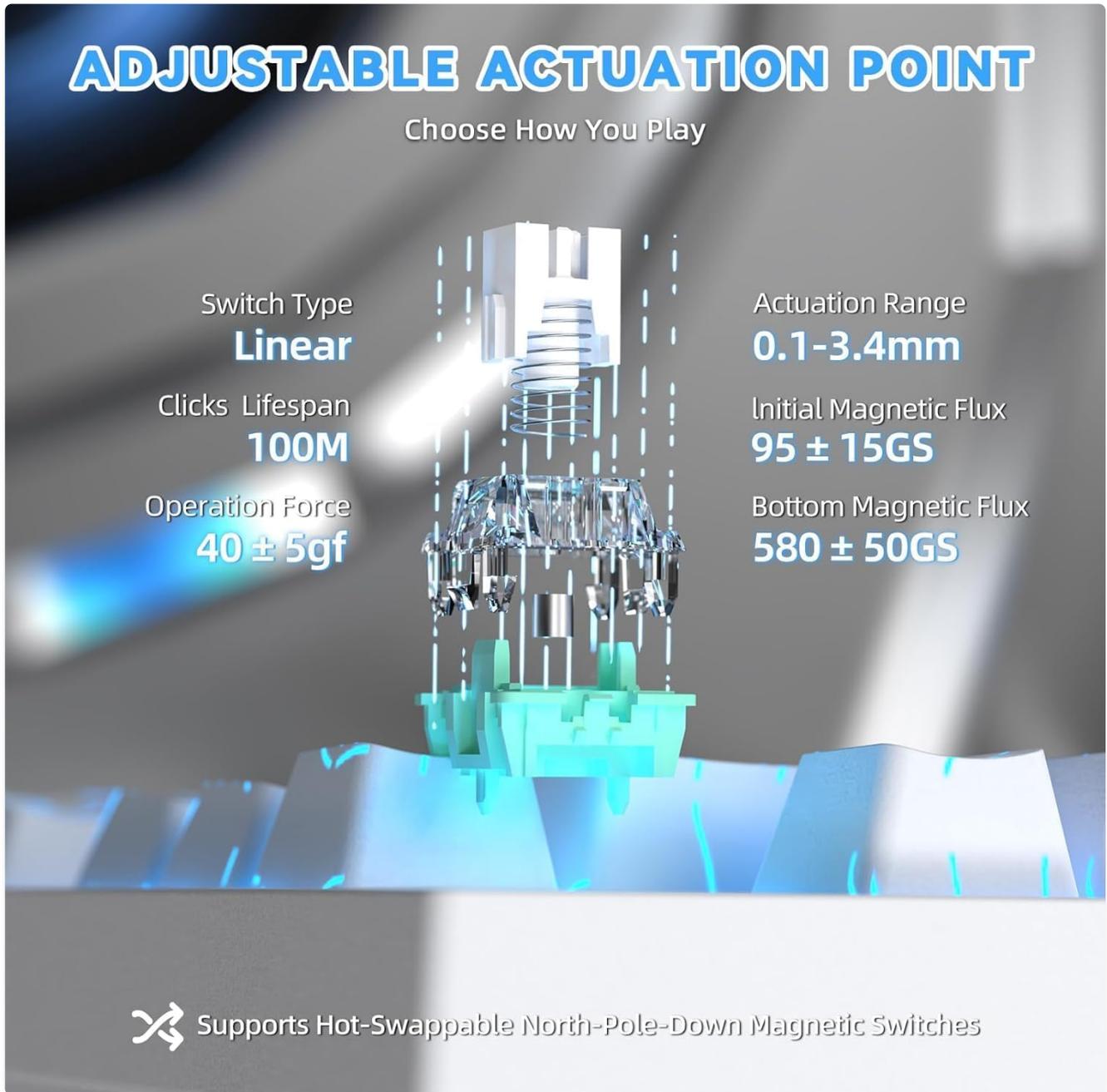## 3.3 Rapid Trigger (RT) and Adjustable Actuation

The R82HE utilizes Hall Effect magnetic switches, enabling Rapid Trigger (RT) and adjustable actuation points. These features are crucial for competitive gaming, allowing for instant key reset and personalized key press sensitivity.

- **Rapid Trigger (RT)**: Allows a key to register a press and reset instantly upon release, without needing to travel to a

fixed reset point. This provides faster, more responsive input for rapid actions.

- **Adjustable Actuation Point**: Customize the distance a key needs to travel before it registers a press. The R82HE offers an actuation range of 0.1-3.4mm, allowing you to fine-tune sensitivity for different games or typing preferences.

These settings are configured via the web-based software. Access the software to set your preferred RT sensitivity and actuation depth for individual keys or profiles.

Image 3.2: Detailed view of the adjustable actuation point feature, ranging from 0.1mm to 3.4mm.

3.4 Advanced Functions (DKS, MT, TGL, SOCD)

The web-based software also provides access to advanced functions:

- **DKS (Dynamic Keystroke)**: Allows a single key to perform different actions based on how far it is pressed.
- **MT (Macro Toggle)**: Assign macros to keys for complex command sequences.
- **TGL (Toggle)**: Configure keys to toggle functions on/off.
- **SOCD (Simultaneous Opposite Cardinal Directions)**: Input processing for fighting games to prevent conflicting directional inputs.

These features can be configured and assigned to specific keys through the web driver to optimize your gaming or workflow

experience.

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Video 3.1: Demonstration of the ATTACK SHARK R82HE keyboard's RGB lighting effects and various keycap designs, showcasing customization options.

4. MAINTENANCE

4.1 Cleaning the Keyboard

To maintain optimal performance and appearance, regularly clean your keyboard:

- Disconnect the keyboard from your computer.
- Use a soft, lint-free cloth dampened with a small amount of water or a mild cleaning solution to wipe down the keycaps and chassis.
- For dust and debris between keys, use compressed air or a small brush.
- Avoid using harsh chemicals or abrasive materials.

4.2 Keycap and Switch Removal/Replacement

The R82HE features hot-swappable Hall Effect magnetic switches, allowing for easy removal and replacement of both keycaps and switches without soldering.

1. **Keycap Removal**: Use the provided keycap puller to gently grip the keycap and pull straight up.
2. **Switch Removal**: Use the provided switch puller to carefully grasp the switch from the top and bottom clips, then pull straight up.
3. **Replacement**: Align the new switch with the socket on the PCB and press down firmly until it clicks into place. Ensure the pins are not bent. Place the keycap back onto the switch stem.

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Video 4.1: Detailed demonstration of disassembling the ATTACK SHARK R82HE keyboard, removing keycaps and switches, and revealing the internal sound-dampening layers.

5. TROUBLESHOOTING

5.1 Keyboard Not Responding

- Ensure the USB-C cable is securely connected to both the keyboard and the computer.
- Try connecting the keyboard to a different USB port on your computer.
- Test the keyboard on another computer to rule out system-specific issues.
- Restart your computer.

5.2 RGB Lighting Not Working

- Check if the RGB lighting is turned off using the Fn + PgUp shortcut.
- Ensure the brightness is not set to minimum using Fn + ↓.
- Verify settings in the web-based software.

5.3 Software/Web Driver Issues

- Ensure your internet connection is stable when accessing the web driver.
- Clear your browser's cache and cookies, then try accessing the web driver again.

- If experiencing a 'Code 43' error (USB device descriptor failed) in Windows Device Manager, try updating your USB drivers or connecting to a different USB port. This can sometimes indicate a connection issue or a rare hardware fault.

5.4 Keys Not Registering or Double-Typing

- Check the actuation point settings in the web-based software; a very low actuation point might cause unintended presses.
- Ensure the switches are properly seated. If a switch feels loose, remove and re-insert it.
- If the issue persists for a specific key, consider replacing the switch.

6. SPECIFICATIONS

Feature	Description
Model	R82HE
Connectivity	Wired (USB-C)
Keyboard Type	Mechanical, Hall Effect Magnetic Switch
Layout	75% (80-key)
Polling Rate	8,000 Hz
Latency	0.08 ms
RT Accuracy	0.005 mm
Scan Rate	256 KHz
Actuation Range	0.1 - 3.4 mm (Adjustable)
Key Rollover	N-Key Rollover (NKRO)
Backlighting	Full RGB
Sound Dampening	5-Layer Filling (PE foam/IXPE/PET/silicone/foam)
Compatible Devices	PC, Mac
Item Weight	2.49 pounds
Material	Aluminum (plate)

FIVE-LAYER FOAMED FOR FULL-BODIED

Top Case
Aluminum Alloy Plate
PORON Foam
IXPE Foam
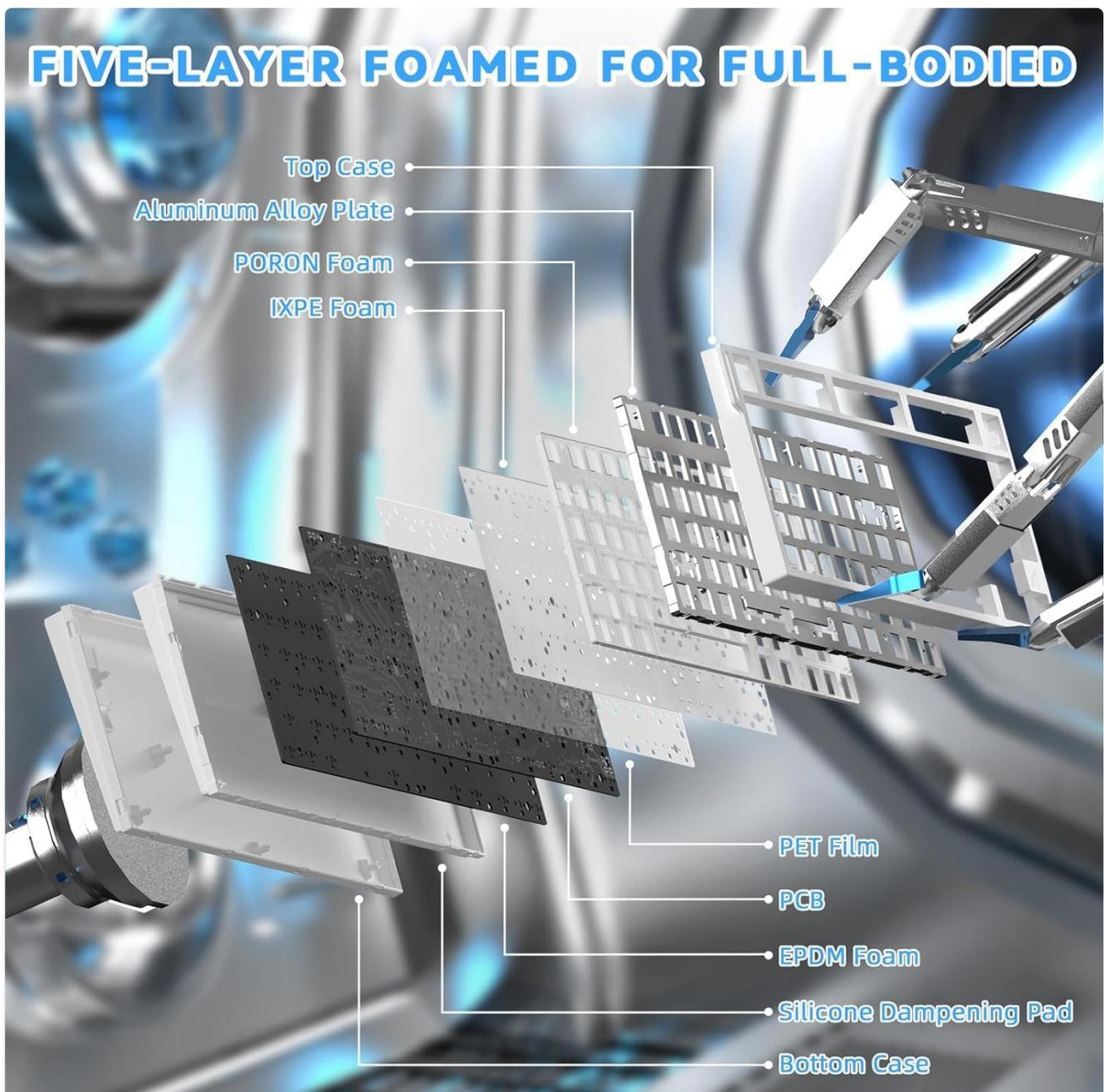PET Film
PCB
EPDM Foam
Silicone Dampening Pad
Bottom Case

Image 6.1: Exploded view illustrating the 5-layer sound-dampening system for enhanced acoustics.

7. WARRANTY INFORMATION

ATTACK SHARK products are manufactured to high quality standards. For specific warranty terms and conditions applicable to your R82HE keyboard, please refer to the warranty card included with your product or visit the official ATTACK SHARK website. Keep your proof of purchase for warranty claims.

8. CUSTOMER SUPPORT

If you encounter any issues or have questions not covered in this manual, please contact ATTACK SHARK customer support through the following channels:

- **Official Website**: Visit the ATTACK SHARK official website for FAQs, driver downloads, and contact information.
- **Email Support**: Refer to your product packaging or the official website for the customer support email address.

When contacting support, please have your product model (R82HE) and purchase information ready.