

REALFORCE R4HA13

REALFORCE R4 Hybrid Keyboard (Model R4HA13)

Instruction Manual

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1. PRODUCT OVERVIEW

The REALFORCE R4 Hybrid Keyboard (Model R4HA13) is a full-size keyboard featuring a Japanese layout and a 30g key weight. It utilizes Topre's unique electrostatic capacitive non-contact switch technology, offering superior reliability, durability, and a distinct typing feel. This model supports both Bluetooth 5.0 wireless and wired USB connectivity, allowing connection to up to five devices.

Key features include silent switches for reduced typing noise, a customizable Actuation Point Changer (APC) function, integrated mouse control capabilities, and a proximity sensor for intelligent power management.



Figure 1.1: Top-down view of the REALFORCE R4 Hybrid Keyboard.

Electrostatic Capacitive Non-Contact Switches

The keyboard employs electrostatic capacitive non-contact switches, which eliminate physical contact points, ensuring high reliability and durability. This design contributes to the keyboard's smooth and consistent typing experience.

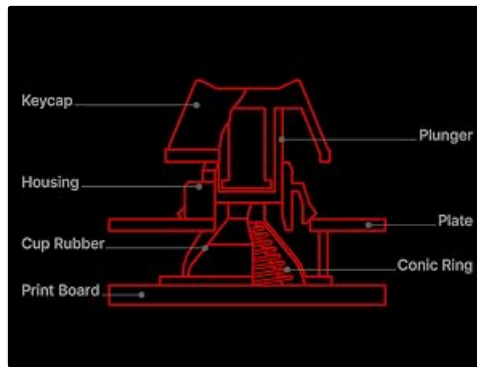


Figure 1.2: Diagram illustrating the electrostatic capacitive non-contact switch mechanism.

Silent Operation

The R4HA13 model features silent switches, designed to minimize typing noise while maintaining the signature REALFORCE typing feel. This makes it suitable for quiet office environments or home use.

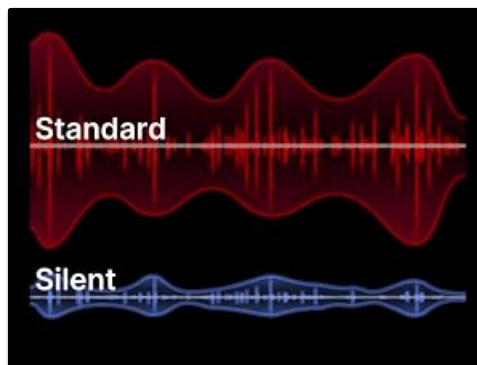


Figure 1.3: Comparison of sound waves for standard and silent switches.

2. SETUP GUIDE

Package Contents

- REALFORCE R4 Keyboard Unit
- AAA Alkaline Batteries x 3 (for operation check)
- USB Cable (Type-C to Type-A, approx. 1.8m)
- Instruction Manual

Battery Installation

1. Locate the battery compartment on the underside of the keyboard.
2. Open the battery compartment cover.
3. Insert three AAA alkaline batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 2.1: Underside of the keyboard with the battery compartment.

Wired Connection

1. Connect the USB Type-C end of the provided cable to the port on the keyboard.
2. Connect the USB Type-A end of the cable to an available USB port on your computer.
3. The keyboard will be automatically recognized by your operating system.



Figure 2.2: Side view showing the USB-C port and power switch.

Bluetooth Connection

The keyboard supports Bluetooth 5.0 and can pair with up to 5 devices.

1. Ensure the keyboard is powered on using the switch on the side.
2. Activate Bluetooth pairing mode on the keyboard (refer to the specific key combination in the included quick start guide).
3. On your device (computer, tablet, smartphone), go to Bluetooth settings and select the REALFORCE R4 keyboard to pair.
4. Repeat for up to 5 devices.



Figure 2.3: Wireless connectivity to multiple devices via Bluetooth.

3. OPERATING INSTRUCTIONS

Basic Typing

The REALFORCE R4 keyboard functions as a standard full-size Japanese layout keyboard. Simply connect it via USB or Bluetooth and begin typing.

Switching Devices

When multiple devices are paired via Bluetooth, use the designated function keys (e.g., Fn + F1-F5) to switch between them. For wired connection, simply plug the USB cable into the desired device.

Dedicated Software

Utilize the dedicated REALFORCE software to customize various keyboard settings, including key remapping, APC function adjustments, and other advanced features. This software allows for a personalized typing experience.



Figure 3.1: Dedicated software interface for keyboard customization.

4. ADVANCED FEATURES

Actuation Point Changer (APC) Function

The APC function allows you to adjust the key actuation point for each key individually, ranging from 0.8mm to 3.0mm in 0.1mm increments (22 levels). This enables optimization of key response speed for different tasks, such as gaming or rapid typing.

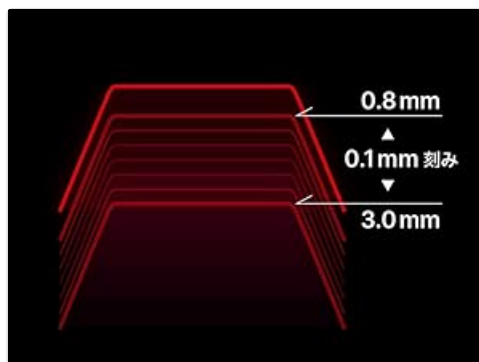


Figure 4.1: APC function allows precise adjustment of key actuation points.

Mouse Operation via Keyboard

The keyboard includes a feature that allows you to control the mouse cursor movement and clicks using

specific key inputs. This can be convenient in situations where a mouse is unavailable or for specific workflow optimizations.

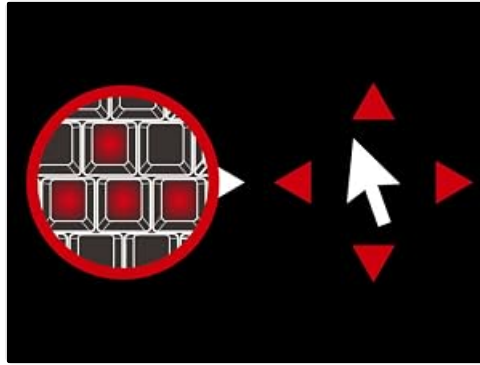


Figure 4.2: Keyboard keys can be used for mouse cursor control.

Proximity Sensor

Equipped with a proximity sensor around the keyboard, the device can detect user presence. During periods of inactivity, it enters a power-saving standby mode. When a hand approaches, it automatically reconnects, ensuring seamless operation and conserving battery life.



Figure 4.3: The proximity sensor detects user presence for power management.

5. MAINTENANCE

Cleaning

To maintain optimal performance and appearance, regularly clean your keyboard. Use a soft, dry cloth to wipe the keycaps and chassis. For stubborn dirt, a slightly damp cloth with mild soap can be used, ensuring no liquid enters the keyboard. Avoid abrasive cleaners or solvents.

Battery Replacement

When the keyboard's battery indicator signals low power, replace the three AAA alkaline batteries as described in the "Battery Installation" section (Section 2.2). Always use fresh, high-quality batteries for best performance.

6. TROUBLESHOOTING

Keyboard Not Responding

- **Wired Connection:** Ensure the USB cable is securely connected to both the keyboard and the computer. Try a different USB port or cable.
- **Bluetooth Connection:** Check if the keyboard is powered on and if the batteries are charged. Re-establish the Bluetooth connection by re-pairing the device. Ensure the correct paired device is selected using the function keys.
- **Power:** Verify that the keyboard's power switch is in the ON position.

Keys Not Registering or Double-Typing

- This keyboard features a 30g key weight. Some users may find this lighter than traditional keyboards, leading to accidental key presses if not accustomed to it. If you experience unintended inputs, consider adjusting your typing style or exploring models with heavier key weights (e.g., 45g or variable weight).
- Ensure the keyboard is clean and free of debris that might obstruct key movement.

Customization Software Issues

If you encounter issues with key remapping or APC settings, ensure you are using the latest version of the REALFORCE dedicated software. Connect the keyboard via USB for customization if experiencing issues with Bluetooth customization (as noted in some user feedback for previous versions).

7. SPECIFICATIONS

Brand	REALFORCE
Model Number	R4HA13
Connectivity Technology	Bluetooth 5.0 & Wired (USB Type-C)
Keyboard Description	R4 Series, Full-Size
Key Switch Type	Electrostatic Capacitive Non-Contact (Topre)
Key Weight	30g
Keycap Material	PBT (Dye-sublimated printing, Kana-less)
Number of Keys	112
Features	APC Function, Mouse Function, Proximity Sensor, Silent Switches, N-Key Rollover
Switch Life	Over 100 million keystrokes
Country of Origin	Japan
Included Components	Keyboard unit, AAA alkaline batteries x 3, USB cable (Type-C to Type-A), Instruction manual

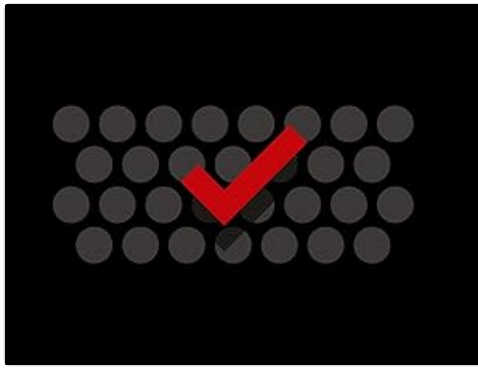


Figure 7.1: N-Key Rollover ensures all key presses are registered.

8. WARRANTY AND SUPPORT

Manufacturer's Warranty

This product comes with a 1-year manufacturer's warranty for free repairs from the date of purchase. To claim warranty service, please contact the REALFORCE customer support center.

Important Note:

- The warranty may not apply to products purchased from retailers other than the official REALFORCE Store. Please retain your proof of purchase.

Customer Support

For any inquiries, technical assistance, or warranty claims, please visit the official REALFORCE website or contact their customer support directly. Contact information can typically be found on the product packaging or the official website.