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Realforce R2TLSA-US4-BK

Realforce R2 PFU Limited Edition Keyboard User Manual

Model: R2TLSA-US4-BK | Brand: Realforce

INTRODUCTION

Thank you for purchasing the Realforce R2 PFU Limited Edition Keyboard. This professional-grade keyboard is designed for optimal typing accuracy and comfort, featuring advanced Topre electrostatic capacitive switches and customizable actuation points. This manual will guide you through the setup, operation, maintenance, and troubleshooting of your new keyboard.

SETUP GUIDE

1. Unboxing and Initial Inspection

Carefully remove the keyboard from its packaging. Inspect the keyboard and included accessories for any signs of damage. The package should contain:

- Realforce R2 PFU Limited Edition Keyboard
- USB 2.0 Cable (1.7 meters, Type-B connector)
- User Manual (this document)

2. Connecting the Keyboard

Connect the USB Type-B end of the provided cable to the port on the back of the keyboard. Connect the USB Type-A end of the cable to an available USB port on your computer.

The keyboard is plug-and-play for most operating systems. No additional drivers are typically required for basic functionality.

3. Adjusting Keyboard Height and Tilt

The keyboard features two adjustable feet on the underside. Flip them out to achieve your preferred typing angle and height for ergonomic comfort.



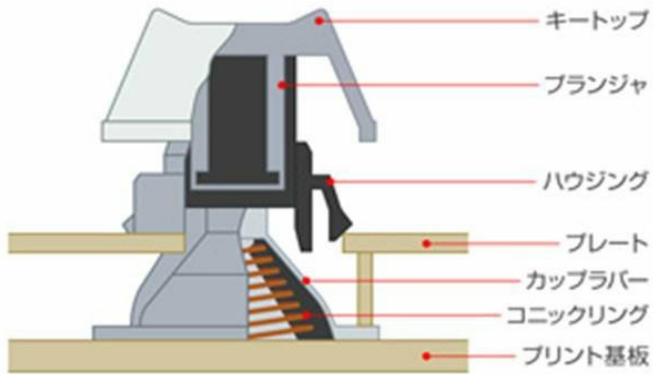
Figure 1: Realforce R2 PFU Limited Edition Keyboard. This image shows the full layout of the keyboard, highlighting its compact tenkeyless design and matte black finish.

OPERATING YOUR REALFORCE R2 KEYBOARD

1. Topre Electrostatic Capacitive Switches

Your Realforce R2 keyboard utilizes Topre electrostatic capacitive switches, known for their unique tactile feel and quiet operation. These switches are rated for 50 million key presses, ensuring long-term durability and consistent performance.

静電容量無接点方式を採用



データセンター等でのプロのキーパンチャーの方々に選ばれた極上のキータッチとチャタリングしない無接点構造、さらに、指への負担を軽減し、指の動きをスムーズにするステップスカルプチャー構造によって長時間のキー入力操作でも快適に操作できます。スイッチ機構に静電容量無接点方式は、電極が接することなく一定レベルに近づけば回路が接続されてキー押下を認識する仕組みのため、物理的な接点が無く、信頼性と耐久性に優れています。

Figure 2: Diagram illustrating the internal structure of a Topre electrostatic capacitive switch. This shows the keycap, plunger, housing, plate, rubber dome, conical spring, and PCB, demonstrating the non-contact actuation mechanism.

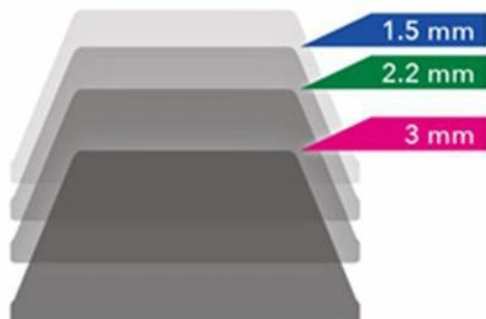
2. Actuation Point Changer (APC)

The Actuation Point Changer (APC) feature allows you to customize the key actuation point for individual keys. This can be adjusted to 1.5mm, 2.2mm, or 3mm using the downloadable software.

- **1.5mm:** Ideal for gaming or applications requiring rapid key presses. Provides up to 25% faster response compared to standard mechanical keyboards.
- **2.2mm:** Standard actuation point, suitable for general typing.
- **3mm:** Provides a deeper press, enhancing typing accuracy and reducing accidental key presses.

To change the actuation points, download the dedicated software from the official Realforce website. The software is compatible with Windows 10, 8.1, 8, and 7.

高速タイピング性を追求したAPC (アクチュエーションポイントチェンジャー) 機能※1を搭載



APC機能により、通常のメカニカルキー
スイッチより最大25%高速入力※2。
各キースイッチのオン位置が1.5mm、
2.2mm、3mmの3段階で調節できるた
め、キースイッチの反応速度を最適化
できます。例えば、素早く入力したい
キーは1.5mmに、不意の誤入力を防
止したいキーは3mmに設定できます。

※1 東プレ株式会社独自機能
※2 東プレ株式会社調べ

Figure 3: Visual representation of the Actuation Point Changer (APC) settings, showing the different actuation depths (1.5mm, 2.2mm, 3mm) for customizable key response.

3. Full N-Key Rollover (NKRO)

The Realforce R2 supports Full N-Key Rollover (NKRO), meaning every key press is registered accurately, regardless of how many keys are pressed simultaneously. This prevents "ghosting" and ensures precision, even during fast typing or complex gaming sequences.

4. Keycap Material and Legends

The keyboard features highly durable PBT (Polybutylene Terephthalate) keycaps. The legends are dyed into the keycaps, ensuring they remain visible and do not fade even after extensive use.

5. Cable Management

The keyboard is designed with three-way cable management channels on the underside, allowing you to route the USB cable neatly to the left, right, or center, keeping your desk organized.

MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your Realforce R2 keyboard, follow these maintenance guidelines:

- **Cleaning the Keyboard:** Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe down the keycaps and chassis. Avoid spraying liquids directly onto the keyboard.
- **Removing Dust and Debris:** Use compressed air to remove dust and debris from between the keycaps. For deeper cleaning, keycaps can be carefully removed using a keycap puller (not included).
- **Avoid Extreme Conditions:** Do not expose the keyboard to extreme temperatures, humidity, or direct sunlight.
- **Cable Care:** Avoid sharp bends or kinks in the USB cable to prevent internal damage.

TROUBLESHOOTING

If you encounter issues with your Realforce R2 keyboard, please refer to the following common solutions:

Problem	Possible Cause	Solution
Keyboard not responding	Loose USB connection, faulty USB port, driver issue.	Ensure USB cable is securely connected to both the keyboard and the computer. Try a different USB port. Restart your computer. Check Device Manager for driver issues.
Certain keys not working	Debris under keycap, software conflict, hardware malfunction.	Remove keycap and clean under the switch with compressed air. Test the keyboard on another computer. If the issue persists, contact customer support.
Actuation Point Changer software not working	Incorrect software version, operating system incompatibility.	Ensure you have downloaded the correct software version for your operating system (Windows 10, 8.1, 8, 7). Run the software as administrator.
Keyboard feels different than expected	Actuation point settings are not preferred.	Adjust the Actuation Point Changer (APC) settings using the software to find your preferred typing feel.

SPECIFICATIONS

Feature	Detail
Brand	Realforce
Model Number	R2TLSA-US4-BK
Product Dimensions	14.2 x 36.9 x 3 cm
Item Weight	1.1 Kilograms
Color	Black
Operating System Compatibility	Windows 10, 8.1, 8, 7
Connectivity Technology	Wired USB (Type-B connector on keyboard)
Number of Keys	87
Key Switch Type	Topre Electrostatic Capacitive (Silent)
Key Weight	45g
Key Travel	4mm
Key Pitch	19.05mm

Feature	Detail
Keycap Material	PBT (Dye-sublimated legends)
N-Key Rollover	Full NKRO
Special Features	Actuation Point Changer (APC), Ergonomic Design, 3-way Cable Management

WARRANTY AND SUPPORT

Your Realforce R2 PFU Limited Edition Keyboard comes with **atwo-year manufacturer's warranty** from PFU (EMEA) Limited, covering defects in materials and workmanship from the date of purchase.

For technical support, warranty claims, or further assistance, please visit the official Realforce website or contact PFU (EMEA) Limited customer service.

Website: www.realforce.co.jp/en/

Please retain your proof of purchase for warranty purposes.