

## ATKGEAR ATK RS6 Ultra

# ATK RS6 Ultra Hall Effect Gaming Keyboard Instruction Manual

Model: ATK RS6 Ultra | Brand: ATKGEAR

## INTRODUCTION

---

The ATK RS6 Ultra is a high-performance 65% layout Hall Effect gaming keyboard designed for precision and responsiveness. It features hot-swappable switches, customizable RGB backlighting with music synchronization, adjustable magnetic actuation, an 8000Hz polling rate, and N-Key Rollover. This manual provides detailed instructions for setting up, operating, maintaining, and troubleshooting your keyboard to ensure optimal performance.

## WHAT'S IN THE BOX

---

- ATK RS6 Ultra Keyboard
- Detachable Side Panels
- Premium PBT Keycaps
- USB-C Cable

## SETUP

---

1. **Unpacking:** Carefully remove the keyboard and all accessories from the packaging.
2. **Connection:** Connect the provided USB-C cable to the keyboard's USB-C port and the other end to an available USB port on your PC. The keyboard will automatically power on.
3. **Driver Installation:** Your operating system should automatically detect and install the necessary drivers. For advanced customization and firmware updates, download the official ATKGEAR software from the manufacturer's website.
4. **Detachable Side Panels:** Attach the detachable side panels to the keyboard if desired. These panels are designed for aesthetic customization.

## OPERATING INSTRUCTIONS

---

### Compact 65% Layout

The ATK RS6 Ultra features a compact 65% layout, which optimizes desk space by removing the number pad while retaining essential arrow keys and function keys. This design is particularly beneficial for gamers who require more mouse movement space.



Image: The ATK RS6 Ultra keyboard showcasing its compact 65% layout, highlighting its space-saving design.

### Hall Effect Switches and Custom Actuation

The keyboard utilizes Hall Effect switches with adjustable magnetic actuation, offering 0.001 mm real-time step precision. This allows you to fine-tune the trigger depth (0.001–3.3 mm) for each key, providing optimal control and accuracy tailored to your preferences.



# Extreme RT Precision

0.001mm Step Precision, Victory Hinges on Millimeters  
0.001–3.3mm Adjustable with Customizable Actuation Point

# 0.001



Image: Illustration demonstrating the extreme RT precision of 0.001mm step actuation on the ATK RS6 Ultra keyboard.

## RGB Lighting and Music Sync

Experience dynamic RGB lighting effects that can be customized through the ATKGEAR software. The keyboard also features a music-reactive mode where LED patterns pulse and change in sync with the rhythm and intensity of your audio playback, creating an immersive experience.



# Music Rhythm Feature

Lighting Effects Sync with Music  
Changing with the Beat of the Notes



Image: The ATK RS6 Ultra keyboard displaying its music rhythm feature, with lighting effects synchronized to music notes.

## 8000Hz Polling Rate

The ATK RS6 Ultra boasts an industry-leading 8000Hz polling rate, delivering ultra-low latency of just 0.08 ms. This ensures instantaneous response times, crucial for competitive gaming and high-speed typing, where every millisecond counts.



Image: Graphic illustrating the 8000Hz polling rate and 0.08ms latency of the ATK RS6 Ultra keyboard.

### **Hot-Swappable Switches**

The keyboard features hot-swappable switch sockets, allowing you to easily change switches without soldering. This enables customization of typing feel and sound to match your preferences.

### **N-Key Rollover**

With 32K N-Key Rollover and a 256K Single-Key Scan Rate, the ATK RS6 Ultra ensures that every keystroke is accurately detected, even during rapid command sequences, preventing any input loss.

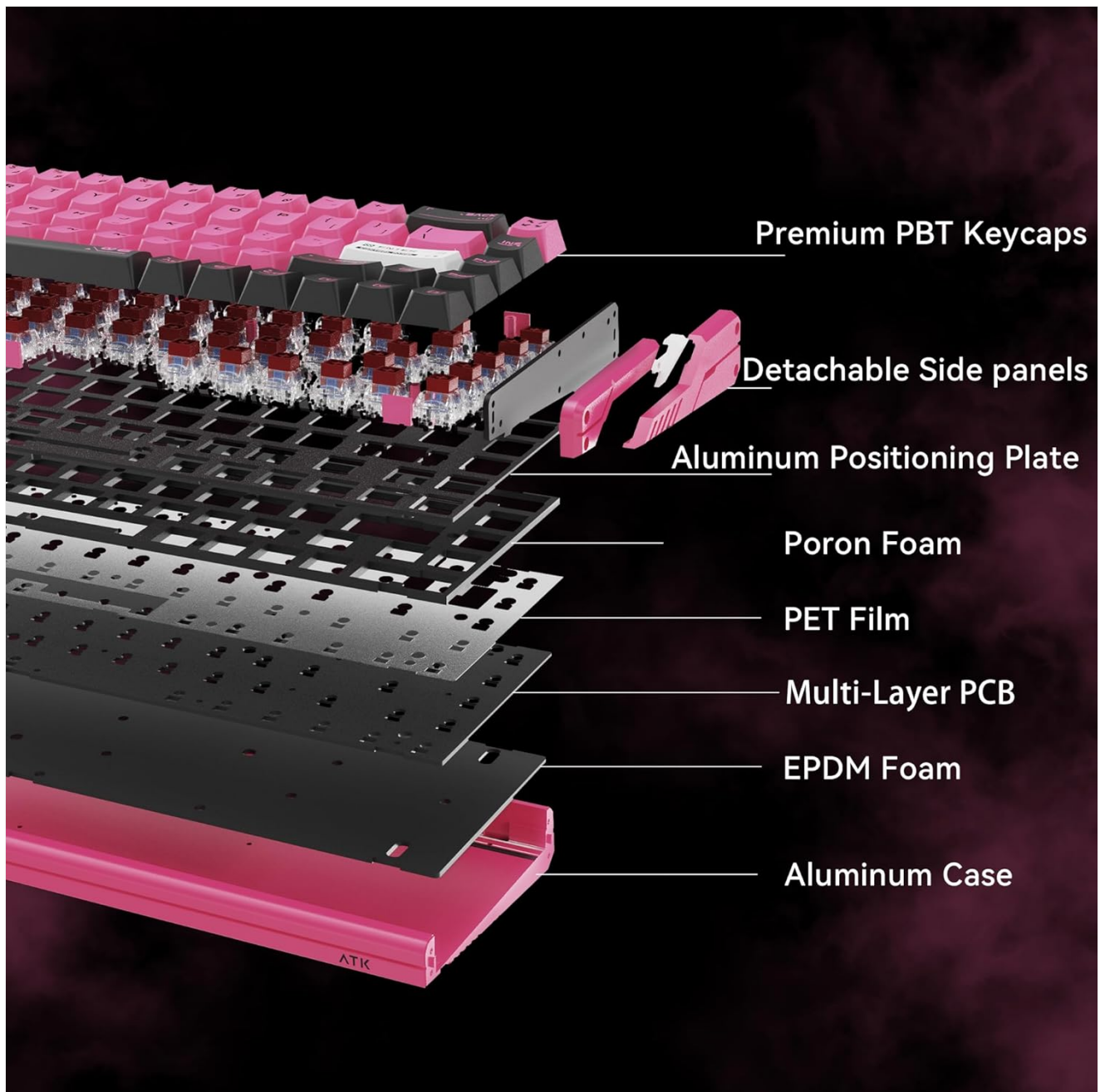


Image: Exploded view of the ATK RS6 Ultra keyboard, showing internal components like premium PBT keycaps, detachable side panels, aluminum positioning plate, various foam layers, multi-layer PCB, and aluminum case.

## MAINTENANCE

- **Cleaning:** Regularly clean the keyboard with a soft, dry cloth. For deeper cleaning, you may use compressed air to remove dust and debris from between the keycaps. Avoid using harsh chemicals or abrasive materials.
- **Keycap Removal:** Use a keycap puller to carefully remove keycaps for cleaning or replacement. Pull straight up to avoid damaging the switch stem.
- **Switch Replacement:** Due to the hot-swappable design, switches can be replaced without soldering. Use a switch puller to gently remove the existing switch and press the new switch firmly into place, ensuring the pins align correctly with the socket.

## TROUBLESHOOTING

Issue	Possible Solution

Issue	Possible Solution
Keyboard not responding	Ensure the USB-C cable is securely connected to both the keyboard and the PC. Try a different USB port or cable. Restart your computer.
RGB lighting not working	Check the ATKGEAR software for lighting settings. Ensure the keyboard firmware is up to date. Try resetting the keyboard to factory defaults (refer to software instructions).
Keys not registering or double-typing	This could indicate a faulty switch. Since the switches are hot-swappable, try replacing the affected switch. Ensure the switch is fully seated in its socket.
Software not detecting keyboard	Ensure the software is the latest version. Reinstall the software. Check for any conflicting drivers or background applications.

## SPECIFICATIONS

Feature	Detail
Brand	ATKGEAR
Model Number	ATK RS6 Ultra
Connectivity Technology	USB-C
Keyboard Layout	65% QWERTY
Switch Type	Hall Effect Mechanical (TTC Magneto RGB)
Special Feature	Hot-Swappable, Adjustable Magnetic Actuation (0.001–3.3 mm), RGB Backlight with Music Sync, 8000Hz Polling Rate, N-Key Rollover
Compatible Devices	PC
Compatible Operating System	Windows
Material	Aluminum, Polybutylene Terephthalate (PBT Keycaps)
Product Dimensions (L x W x H)	13" x 4.3" x 1"
Item Weight	4 Pounds
Color	Sakura Warrior

## WARRANTY AND SUPPORT

The ATK RS6 Ultra Hall Effect Gaming Keyboard comes with a **6-month warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims. For technical support, troubleshooting assistance, or warranty inquiries, please visit the official ATKGEAR website or contact their customer service department. You can find more information and resources on the [ATKGEAR Store on Amazon](#).

