DIY series

2025
Mechanical Keyboard

DS84x

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Mechanical Keyboard
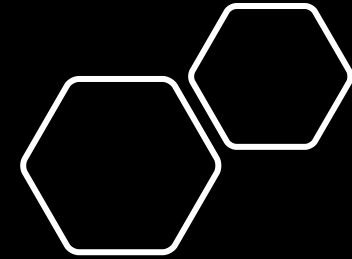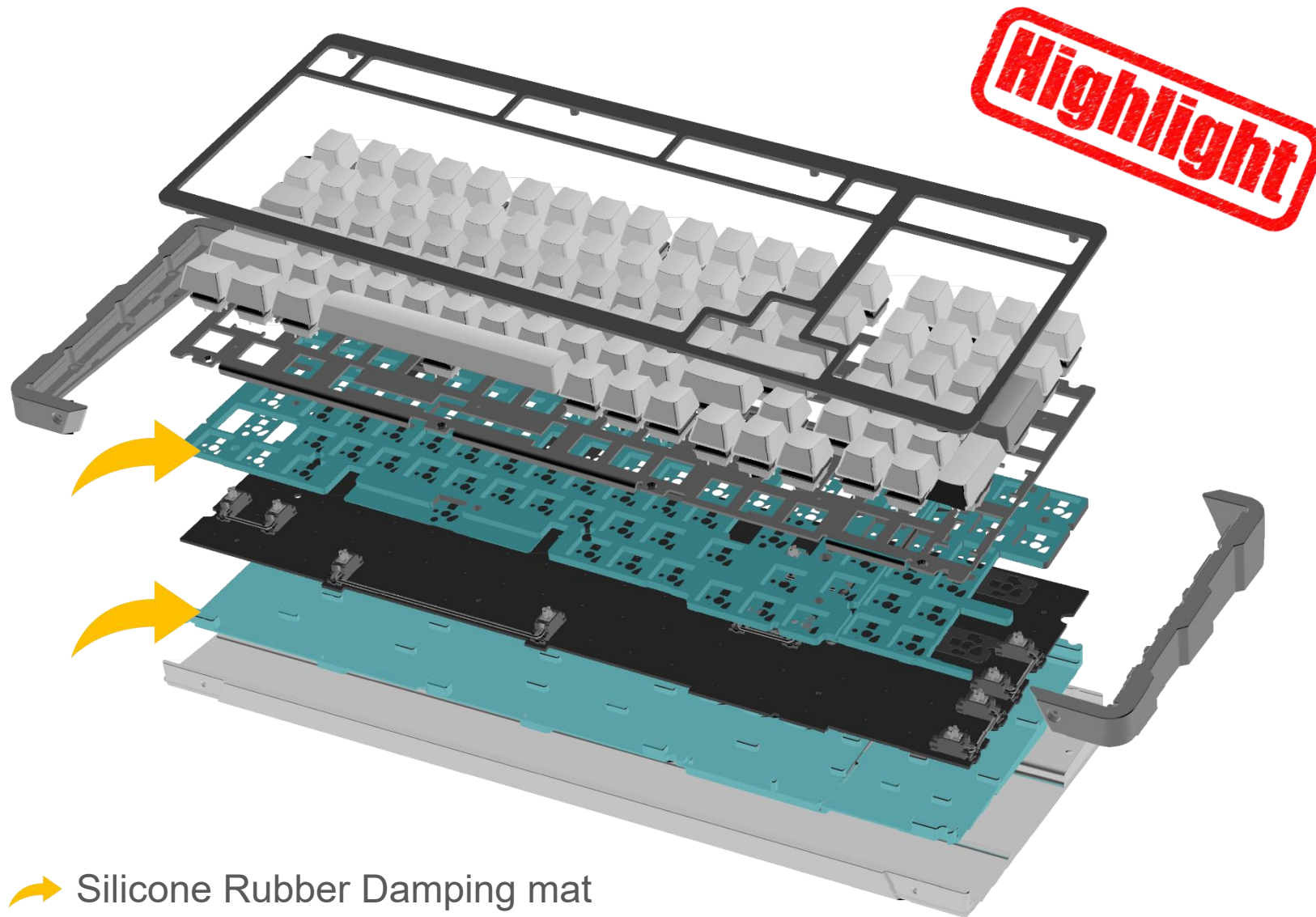
DS84x

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Mechanical Keyboard

Key Features

- Double shot PBT/PC DSA Keycaps with long-lasting Dye-Sublimation legends.
- Equipped with a silicone rubber damping mat for vibration and hollow sound absorption, delivering a perfect representation of the tactile and sound feedback of the mechanical switches.
- With hot-swappable key switch sockets.
- 84 keys reduced size layout from 108-key, supporting macOS, WINDOWS10 or above, and Linux.
- Triple Connection Modes: USB, Proprietary RF 2.4GHz, and Bluetooth 5.0.
- Software support Macro programming available.
- Anodized Aluminum Top housing available in Space Gray.

Highlight
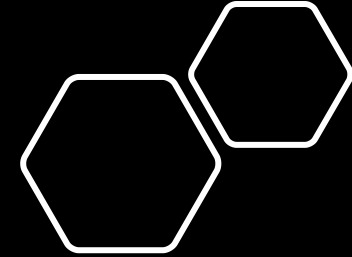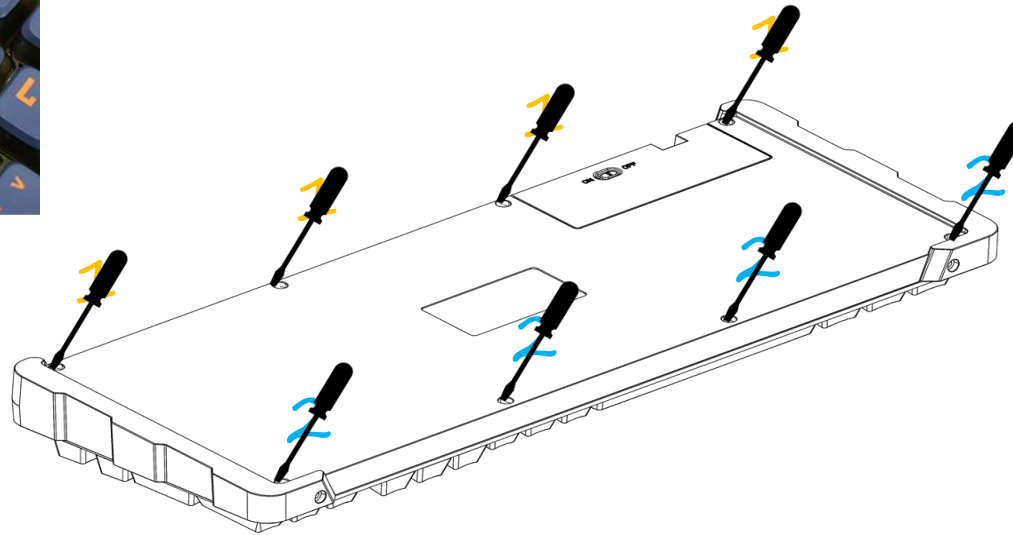
➤ Silicone Rubber Damping mat
- Positioned between the switch plate and PCBA, it effectively absorbs vibrations, pinging, and hollow sounds generated by the springs inside each key switch, resulting in excellent sound and vibration dampening.
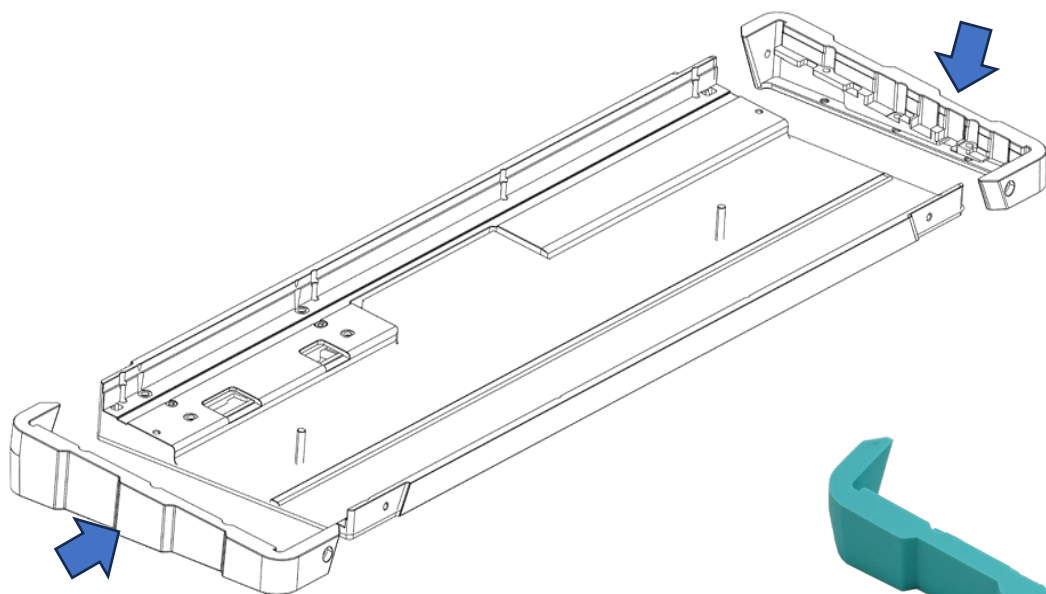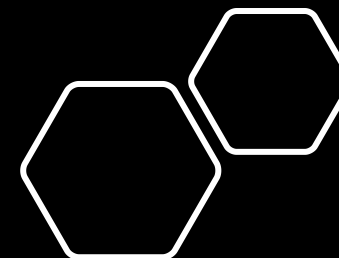
A simple yet robust structure, fully customizable
- Less is more; only 8 screws are required to secure the keyboard, making it easy to access the interior.
- With hot-swappable key switches design, users can easily customize their keyboards by swapping in different types of key switches.

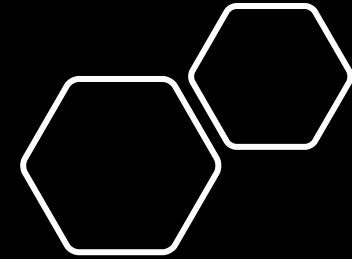Heng Yu Technology (HK) Limited
http://www.hengyu-tech.com

Featuring an innovative cushion design

- The colorful side bumper guard serves not only as a decorative element but also as a protective measure for this high-quality aluminum-built keyboard.
- Various material options are available, including Silicone Rubber, clear/milky Acrylic, Wood, and more, allowing for customization based on individual preferences.
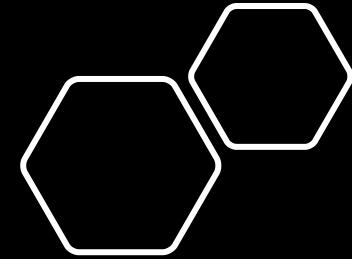
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RGB

o 15 default backlit effects
o Offers customizable backlit effects that can be adjusted and personalized using software.

Technical Data

[USB]
o Input Voltage Range: 5V
o Max current consumption:
    - RGB backlit ON = less than 500mA
    - RGB backlit OFF = 34mA

[Wireless]
o Lithium Battery Capacity: 4000 mAH
o RF
    - Working current: 8mA (no backlit)
    - Sleeping current: 75uA
o Bluetooth
    - Working current: 5mA (no backlit)
    - Sleeping current: 75uA

[Keyboard Polling rate]
o USB and RF2.4GHz = 1ms;
o Bluetooth 5.0 = 132ms

[Others]
o Rechargeable 4000mAH Lithium Polymer Battery
    fully charged = last for 4 Months*
o Key strokes life: 50 million
o Key Full Travel Distance: 4mm
o Pre Travel Distance: 2mm
o Storage temperature: -40°C to +55°C
o Operating temperature: 0°C to +45°C
o Operating humidity: 40% to 90%
o Dimensions: 340 x 150 x 45mm
o Approval and Compliance: FCC / CE / RoHS / REACH

*without backlit turned ON

2024