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› [MechLands Aula F87 PRO V2 Wireless Gaming Keyboard User Manual](#)

MechLands F87 PRO V2

MechLands Aula F87 PRO V2 Wireless Gaming Keyboard User Manual

Model: F87 PRO V2

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your MechLands Aula F87 PRO V2 Wireless Gaming Keyboard. Please read this manual thoroughly before using the product to ensure proper functionality and to maximize your user experience.

2. SAFETY INFORMATION

- Keep the keyboard away from liquids and excessive moisture.
- Avoid exposing the keyboard to extreme temperatures.
- Do not attempt to disassemble or modify the keyboard, as this may void the warranty and cause damage.
- Use only the provided USB cable for charging and wired connection.
- Keep out of reach of children.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- F87 PRO V2 Keyboard
- USB Cable
- User Manual
- Keycap Puller

4. PRODUCT OVERVIEW

The MechLands Aula F87 PRO V2 is a Tenkeyless (TKL) mechanical gaming keyboard designed for versatility and performance. It features multiple connectivity options, a large battery capacity, and customizable RGB lighting.

MECHLANDS

F87 PRO V2

Wireless TKL Gaming Keyboard With Dot-Matrix Screen



10000mAh
Battery



3 Modes
Wireless



Advanced
Keys



WIN/MAC/
Android



RGB
Backlights



Programmable
Driver

Image: Top-down view of the MechLands Aula F87 PRO V2 Wireless Gaming Keyboard, showcasing its TKL layout and RGB backlighting.

Key Features:

- **Compact TKL Design:** Balances functionality and portability, ideal for gaming and office use.
- **Tri-Mode Connectivity:** Supports Bluetooth (BT), 2.4GHz wireless, and wired USB-C connections.
- **High-Capacity Battery:** Equipped with a 10,000mAh battery for extended usage.
- **8K Polling Rate:** Delivers fast response times for competitive gaming (wired mode).
- **Advanced Gaming Features:** Includes SOCD (Simultaneous Opposite Key Detection), MT (Multi-Tap), and TGL (Toggle) options.
- **Gasket Structure:** Enhances typing comfort and reduces noise.
- **Hot-Swappable Switches:** Allows for easy customization of typing feel without soldering.
- **RGB Backlighting:** Customizable 360° Light Zone and per-key RGB for immersive lighting effects.



Image: An infographic detailing key features such as creamy gasket structure, adjustable stands, dot-matrix display, weight, dimensions, linear switches, response times for USB-C, 2.4GHz, and BT, battery life, programmable driver, SOCD, MT, and TGL functions.

5. SETUP

5.1 Initial Charging

Before first use, fully charge the keyboard using the provided USB-C cable. Connect one end to the keyboard's USB-C port and the other end to a powered USB port on your computer or a wall adapter.

5.2 Connecting the Keyboard

The F87 PRO V2 supports three connection modes: 2.4GHz wireless, Bluetooth, and wired USB-C.

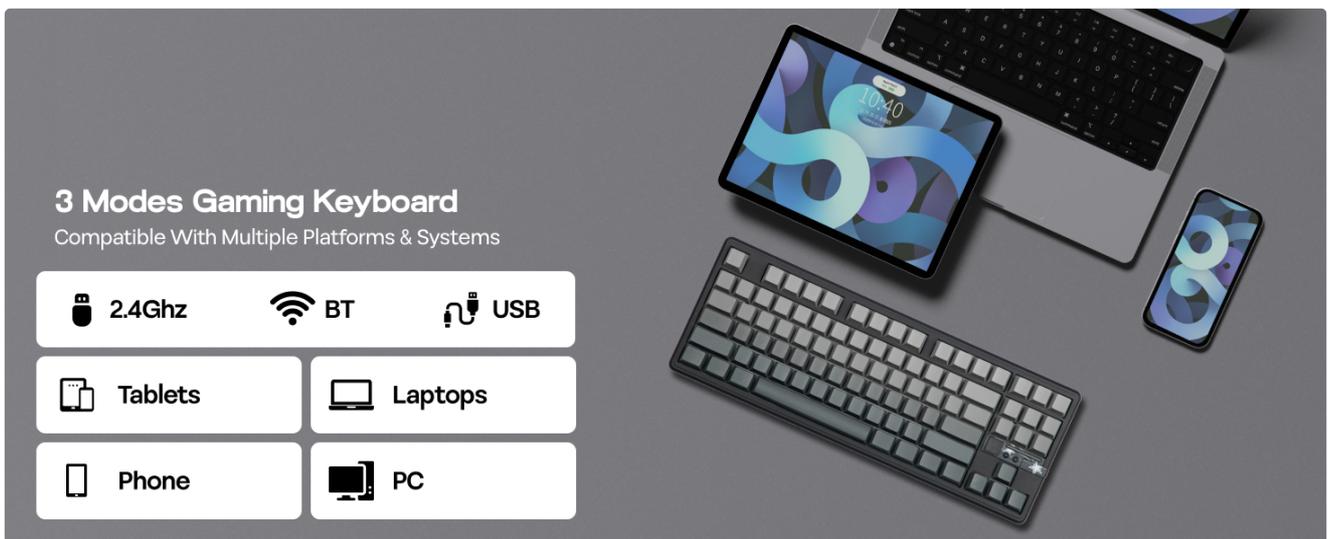


Image: An illustration showing the keyboard connected to various devices (tablet, laptop, phone, PC) via 2.4GHz, Bluetooth, and USB-C, highlighting its multi-platform compatibility.

1. 2.4GHz Wireless Mode:

- Locate the 2.4G USB receiver, typically stored in a magnetic slot on the keyboard.



Image: A close-up view of the keyboard's magnetic slot for storing the 2.4G USB receiver.

- Plug the receiver into an available USB port on your computer.
- Toggle the connection switch on the keyboard to 2.4G mode. The keyboard should connect automatically.

2. Bluetooth Mode:

- Toggle the connection switch on the keyboard to BT mode.
- On your device (PC, laptop, tablet, smartphone), enable Bluetooth and search for new devices.
- Select "Aula F87 PRO V2" from the list of available devices to pair.

3. Wired USB-C Mode:

- Connect the USB-C cable to the keyboard and the other end to your computer's USB port.
- Toggle the connection switch on the keyboard to USB mode. The keyboard will function as a wired device and charge simultaneously.

6. OPERATING INSTRUCTIONS

6.1 Basic Functions

- **Adjustable Stands:** The keyboard features adjustable stands on the underside to set your preferred typing angle (low or high position).



Image: A visual representation of the keyboard in both low and high positions, demonstrating the adjustable stands for ergonomic typing.

- **Dot-Matrix Display:** The integrated dot-matrix screen can display various information or animations. Use the

dedicated buttons next to it to cycle through options.



Image: A close-up of the keyboard's dot-matrix display screen, showing a dynamic pattern.

6.2 Advanced Gaming Features (SOCD, MT, TGL)

The keyboard includes advanced features for enhanced gameplay:

- **SOCD (Simultaneous Opposite Key Detection):** Prevents conflicting inputs when opposite directional keys are pressed simultaneously.
- **MT (Multi-Tap):** Allows for rapid, repeated inputs with a single key press.
- **TGL (Toggle):** Toggles a key's state between on and off with a single press, rather than requiring a hold.



Image: An illustration explaining the functions of SOCD (Snap Key), MT (Mod-Tap), and TGL (Toggle Key) with visual examples of key presses.

6.3 RGB Backlighting

The F87 PRO V2 features customizable RGB backlighting and a 360° Light Zone.



Image: A view of the keyboard highlighting its south-facing backlights and the 360° immersive lighting around the keyboard's edge.

- Use the dedicated function keys (often Fn + arrow keys or specific keys) to cycle through lighting modes, adjust brightness, and change colors. Refer to the quick guide for specific key combinations.
- For advanced customization, use the downloadable driver software.

6.4 Customizable Driver Software

Unlock the full potential of your keyboard with the customizable driver software. This software allows you to:

- Remap keys
- Create and edit macros
- Adjust advanced key functions
- Customize backlight settings
- Configure screen settings
- Adjust system settings

To access the web-based software, press **Fn + M**. A downloadable version is also available.

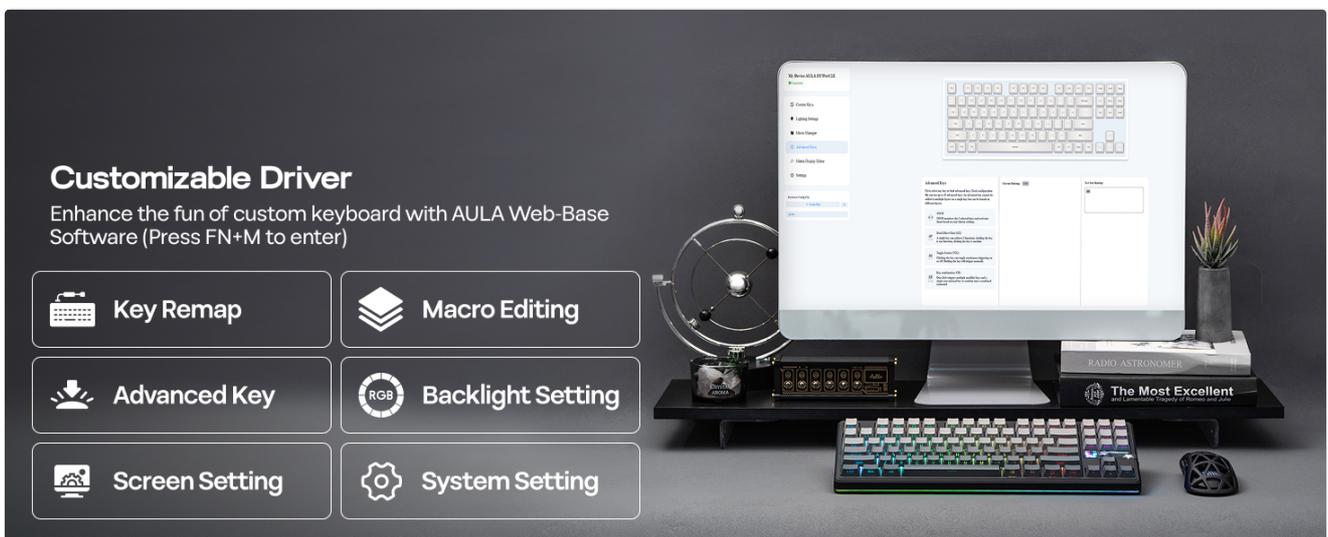


Image: A screenshot of the customizable driver software interface, showing options for key remapping, macro editing, backlight settings, and screen settings.

7. MAINTENANCE

7.1 Cleaning

- Gently wipe the keyboard surface with a soft, damp cloth.
- For deeper cleaning, use the provided keycap puller to remove keycaps and clean underneath with compressed air or a soft brush.
- Ensure the keyboard is powered off and disconnected before cleaning.

7.2 Hot-Swappable Switches

The F87 PRO V2 features hot-swappable switches, allowing you to change switches without soldering.



Image: A close-up showing a keycap and switch being removed from the keyboard, illustrating the hot-swappable feature. Details on south-facing LEDs, linear switch, plate-mounted stabilizer, and hot-swap socket are also shown.

1. Use a switch puller (not included, but often comes with replacement switches) to carefully remove the existing switch.
2. Align the pins of the new switch with the holes on the PCB.
3. Gently press the new switch into place until it clicks. Ensure the pins are not bent.



Image: A detailed view of the Greywood V4 switch, including its linear type, pre-lubed status, light diffusers, actuation force ($40\pm 5\text{gf}$), bottom-out force ($50\pm 5\text{gf}$), pre-travel ($1.5\pm 0.4\text{mm}$), and total travel ($3.6\pm 0.4\text{mm}$).

8. TROUBLESHOOTING

- **Keyboard not responding:**

- Ensure the keyboard is charged.
- Check the connection mode switch (2.4G, BT, USB) matches your connection method.
- For 2.4G, ensure the USB receiver is securely plugged in.
- For Bluetooth, ensure your device's Bluetooth is enabled and the keyboard is paired.
- Try connecting via USB-C cable to rule out wireless issues.

- **Lag or input delay in wireless mode:**

- Ensure the keyboard is close to the receiver/device.
- Minimize interference from other wireless devices.
- For critical gaming, use the wired USB-C connection for optimal 8K polling rate performance.

- **RGB lighting not working:**

- Check if the lighting is turned off or set to minimum brightness using function keys.
- Use the driver software to adjust lighting settings.
- **Specific keys not working:**
 - If you have hot-swapped switches, ensure the switch is properly seated and its pins are not bent.
 - Try replacing the faulty switch with a spare one if available.

9. SPECIFICATIONS



Image: An illustration showing the 87% TKL layout with US layout 87 keys, and technical specifications including length (36.3cm), width (13.8cm), height (4.2cm), and weight (1.09kg).

Feature	Detail
Model	F87 PRO V2
Connectivity Technology	2.4GHz Wireless, Bluetooth, USB-C Wired
Battery Capacity	10,000mAh
Polling Rate (Wired)	8000Hz (8K)
Polling Rate (2.4GHz)	1000Hz
Polling Rate (Bluetooth)	125Hz
Layout	Tenkeyless (TKL) 87-key US Layout
Switches	Hot-swappable mechanical switches (e.g., Greywood V4 Linear)
Backlighting	RGB, 360° Light Zone, South-Facing LEDs
Special Features	SOCD, MT, TGL, Creamy Gasket Structure, Dot-Matrix Display, Programmable Driver
Dimensions (L x W x H)	36.3 cm x 13.8 cm x 4.2 cm (15.35 x 6.97 x 2.09 inches)
Weight	1.09 kg (3.1 pounds)
Material	Plastic
Compatible Devices	Laptop, PC, Smart TV, Smartphone, Tablet (Windows/Mac OS/iOS/Android)

Your browser does not support the video tag.

Video: An official product video showcasing the MechLands AULA F87 PRO V2 TKL Gaming Keyboard, demonstrating its features and various color options.

10. WARRANTY AND SUPPORT

MechLands products come with a standard manufacturer's warranty. For detailed warranty information, technical support, or service inquiries, please refer to the official MechLands website or contact their customer service directly. Keep your purchase receipt for warranty claims.

