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Model: RK100

1. SETUP

1.1 Package Contents

Before proceeding, ensure all items are present:

- RK ROYAL KLUDGE RK100 Wireless Mechanical Keyboard
- USB Cable (Type-C)
- Keycap/Switch Puller Tool
- User Manual
- Additional Switches (typically 4-5 for replacement)
- 2.4G Wireless Dongle

1.2 Connectivity Modes

The RK100 keyboard supports three connection modes: Wired (USB Type-C), 2.4GHz Wireless, and Bluetooth 5.1.

Three Modes in One

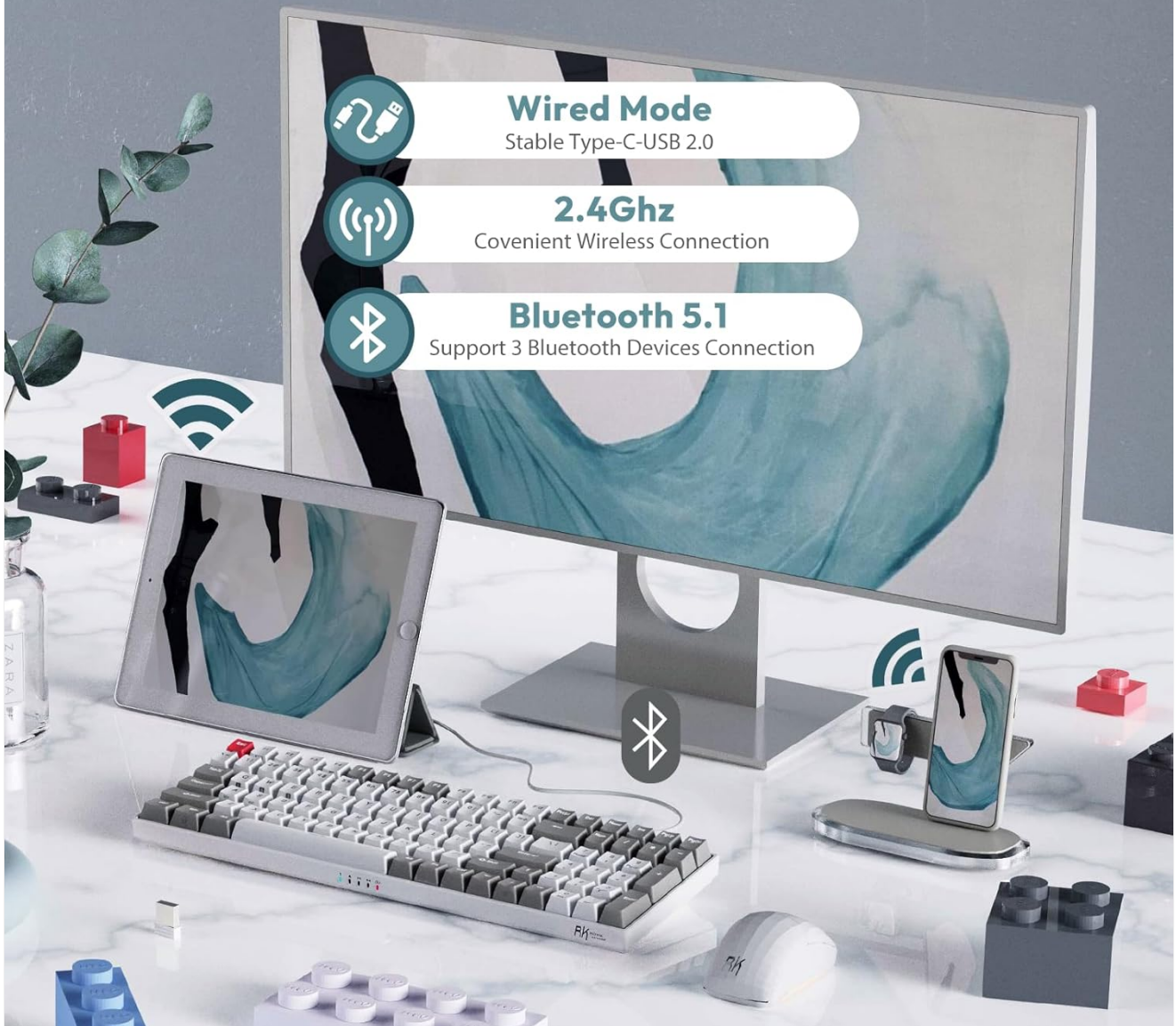


Image: The RK100 keyboard connected via its three modes: wired to a monitor, 2.4GHz wireless to a tablet, and Bluetooth to a smartphone.

Wired Mode

1. Ensure the switch on the keyboard's rear is set to 'OFF'.
2. Connect the provided USB Type-C cable to the keyboard and your computer.
3. The keyboard will be recognized automatically by your operating system.

2.4GHz Wireless Mode

1. Locate the 2.4G wireless dongle, typically stored in a compartment on the keyboard.



Image: A detailed view of the keyboard's side, highlighting the dedicated storage slot for the 2.4GHz wireless dongle and the integrated USB hub.

2. Plug the 2.4G dongle into an available USB port on your computer.
3. Set the switch on the keyboard's rear to 'G' (for 2.4G wireless).
4. The keyboard should connect automatically. If not, press **FN + P** until the indicator light blinks, then plug in the dongle to pair.

Bluetooth 5.1 Mode

1. Set the switch on the keyboard's rear to 'B' (for Bluetooth).
2. The keyboard can connect to up to three Bluetooth devices. Press **FN + Q**, **FN + W**, or **FN + E** to select a Bluetooth channel.
3. Hold the selected channel key (e.g., **FN + Q**) for 3-5 seconds until the indicator light flashes rapidly, indicating pairing mode.
4. On your device (computer, tablet, smartphone), enable Bluetooth and search for 'RK100'.
5. Select 'RK100' to pair. The indicator light will stop flashing once connected.
6. To switch between paired Bluetooth devices, simply press **FN + Q/W/E** for the desired channel.

2. OPERATING INSTRUCTIONS

2.1 Basic Keyboard Functions

The RK100 features a 96% full-size layout with 100 keys, including a dedicated number pad and independent arrow keys.



Image: An overhead view of the RK100 keyboard, illustrating its compact 96% layout which retains a full number pad and separate arrow keys.

Function Key Combinations (FN)

- **FN + F1-F12:** Multimedia and system control functions (specific functions may vary by operating system).
- **FN + A/S:** Switch between Windows and Mac operating system layouts.
- **FN + Left CTRL:** Lock/Unlock Windows key.

2.2 RGB Backlight Customization

The RK100 keyboard offers extensive RGB backlighting with multiple modes and customization options.



Image: The RK100 keyboard illuminated with colorful RGB backlighting, positioned next to a laptop, demonstrating its visual appeal.

- **FN + \|**: Cycle through 18 RGB backlight modes.
- **FN + Right CTRL**: Cycle through 8 monochrome backlight modes.
- **FN + Right SHIFT**: Cycle through 1 full-color backlight mode.
- **FN + Arrow Keys (Up/Down)**: Adjust backlight brightness.
- **FN + Arrow Keys (Left/Right)**: Adjust backlight speed/direction.

2.3 USB Hub Functionality

The keyboard is equipped with 2 built-in USB pass-through ports and 1 Type-C port, allowing connection of additional peripherals or charging devices when the keyboard is in wired mode.

2.4 Battery Management

The RK100 features a 3750mAh battery for extended wireless use. The indicator lights on the keyboard will show battery status. Charge the keyboard using the provided USB Type-C cable when the battery is low.

3. MAINTENANCE

3.1 Cleaning the Keyboard

To clean your keyboard, power it off and disconnect it from your computer. Use a soft, lint-free cloth lightly dampened with water or a mild cleaning solution. Avoid spraying liquids directly onto the keyboard. For cleaning between keycaps, use compressed air or a small brush.

3.2 Hot-Swappable Switches

The RK100 keyboard features hot-swappable switches, allowing you to change switches without soldering. It supports most 3-pin/5-pin MX-style mechanical switches.



Image: A close-up of the RK100 keyboard demonstrating its hot-swappable switch feature, with keycaps and switches removed to reveal the PCB sockets.

1. Use the provided keycap puller to gently remove the desired keycap.
2. Use the switch puller tool to carefully grip the switch from its top and bottom clips, then pull it straight up to remove it from the PCB.
3. Align the pins of the new switch with the holes on the PCB. Ensure the pins are straight to avoid bending.
4. Gently press the new switch into place until it clicks securely.
5. Replace the keycap.

4. TROUBLESHOOTING

4.1 Connectivity Issues

- **Keyboard not connecting in 2.4GHz mode:** Ensure the switch is set to 'G'. Try replugging the dongle. If issues persist, try re-pairing by pressing **FN + P** until the light blinks, then plug in the dongle.
- **Keyboard not connecting in Bluetooth mode:** Ensure the switch is set to 'B'. Check if the correct Bluetooth channel (FN+Q/W/E) is selected and in pairing mode (rapidly flashing light). Remove previous pairings on your device and try pairing again.
- **Intermittent connection:** Ensure the keyboard is within range of your device. Avoid sources of interference (e.g., other wireless devices, large metal objects). Ensure the keyboard battery is sufficiently charged.

4.2 Backlight Not Working or Incorrect

- **No backlight:** Ensure the backlight brightness is not set to minimum (**FN + Arrow Down**). Check if the keyboard is in a mode that supports backlighting.
- **Incorrect colors/patterns:** Cycle through backlight modes using **FN + **, **FN + Right CTRL**, or **FN + Right SHIFT**.

4.3 Keys Not Responding

- **Single key not responding:** The switch may be faulty or improperly seated. Try removing the keycap and switch, then re-inserting the switch firmly. If the issue persists, replace the switch with one of the spares provided.
- **Multiple keys not responding:** Try connecting the keyboard in wired mode to rule out wireless issues. Ensure the keyboard is fully charged. If the problem persists, contact customer support.

5. SPECIFICATIONS

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|--------------------------------|--|
| Model | RK100 |
| Brand | RK ROYAL KLUDGE |
| Connectivity Technology | Bluetooth 5.1, 2.4GHz Wireless, USB Type-C Wired |
| Keyboard Description | Tri-mode Mechanical Gaming Keyboard |
| Layout | 96% Full Size, 100-Key |
| Switches | Hot-swappable (supports 3-pin/5-pin MX-style switches) |
| Backlighting | RGB (18 modes, 8 monochrome, 1 full-color) |
| Battery Capacity | 3750mAh Lithium Ion |
| USB Ports | 2x USB-A, 1x Type-C (pass-through) |
| Compatible Devices | PC, Laptop, Tablet, Smartphone (Win/Mac dual system) |
| Product Dimensions | 14.5 x 4.1 x 1.6 inches |
| Item Weight | 2.51 pounds |

6. WARRANTY AND SUPPORT

6.1 Product Warranty

Please refer to the warranty information provided with your product packaging for details regarding coverage and terms. Keep your proof of purchase for warranty claims.

6.2 Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact RK ROYAL KLUDGE customer support:

- **Email:** rkhelping@163.com
- **Amazon Store:** Visit the RK ROYAL KLUDGE Store on Amazon and click "Ask a question" to contact us.