

KINGLED KP4000

KINGLED KP4000 LED Grow Light Instruction Manual

Model: KP4000

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your KINGLED KP4000 LED Grow Light. This full-spectrum grow light is designed to support indoor plants through all growth stages, from vegetative to flowering and fruiting, in environments such as hydroponic setups and grow tents.

The KINGLED KP4000 features 2304 LEDs, including red, blue, white, and yellow lights, to simulate natural sunlight. It offers dedicated Veg and Bloom modes, along with a combined mode, allowing for tailored light spectrums to meet specific plant requirements.

2. SAFETY INFORMATION

- Always disconnect the power supply before installation, cleaning, or maintenance.
- Do not look directly at the operating LED lights. Prolonged exposure can cause eye strain or damage. Protective eyewear is recommended.
- Ensure the light is installed in a well-ventilated area to prevent overheating.
- Keep the light away from water or any wet environments to prevent electrical shock.
- Do not attempt to disassemble or modify the light. This will void the warranty and may cause damage or injury.
- Ensure the hanging system is securely fastened and can support the weight of the grow light.
- Operate the light within the specified voltage range (100-240VAC).

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- KINGLED KP4000 LED Grow Light Unit
- Power Cord
- Adjustable Rope Hanger
- Stainless Steel Hanger Hooks
- User Manual (this document)

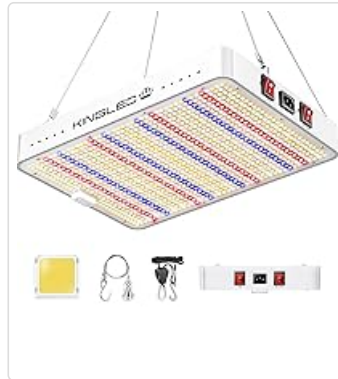


Image: The KINGLED KP4000 LED Grow Light and its accompanying accessories, including the power cord and hanging hardware.

4. PRODUCT FEATURES

- **Full Spectrum Lighting:** Equipped with 2304 LEDs (256 red, 256 blue, 896 white, 896 yellow) to provide a comprehensive light spectrum for all plant growth stages.
- **High PAR Output:** Delivers high Photosynthetically Active Radiation (PAR) for efficient photosynthesis and robust plant growth.
- **Three Growth Modes:** Features distinct Veg, Bloom, and combined Veg & Bloom modes to optimize light delivery for specific plant development phases.
- **Energy-Efficient Design:** Consumes 400 watts while providing performance comparable to traditional grow lamps, reducing electricity costs.
- **Effective Heat Dissipation:** Incorporates an aluminum heat sink and high-speed, quiet fans to maintain optimal operating temperatures (50°F to 60°F), preventing overheating and extending product lifespan.
- **Wide Coverage:** Designed for a coverage area of 5x5 ft or 4x4 ft, suitable for various indoor growing setups.



Image: Detailed breakdown of the 2304 LEDs and their respective wavelengths for full-spectrum plant growth.



Image: The advanced cooling fan technology integrated into the grow light for optimal temperature management.

5. SETUP INSTRUCTIONS

Follow these steps to set up your KINGLED KP4000 LED Grow Light:

1. **Attach Hanger Hooks:** Securely attach the stainless steel hanger hooks to the designated points on the top corners of the grow light unit.
2. **Connect Adjustable Rope Hanger:** Connect the adjustable rope hanger to the stainless steel hanger hooks. Ensure the rope hanger is properly threaded through its mechanism for height adjustment.
3. **Mount the Light:** Hang the grow light from a sturdy support structure (e.g., ceiling, grow tent frame) using the adjustable rope hanger. Adjust the height to the desired distance from your plants.
4. **Connect Power:** Plug the provided power cord into the power inlet on the side of the grow light. Then, plug the other end of the power cord into a compatible electrical outlet (100-240VAC).
5. **Initial Power On:** Once securely mounted and plugged in, you can activate the light using the switches on the unit.

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Video: A demonstration of unboxing and setting up the KINGLED Grow Light, including attaching hangers and connecting power.

6. OPERATING INSTRUCTIONS

The KINGLED KP4000 features two main switches: 'VEG' and 'BLOOM'. These switches control different sets of LEDs to provide optimal light spectrums for various plant growth stages.

- **VEG Mode:** Activate the 'VEG' switch for the vegetative growth stage. This mode provides a spectrum rich in blue light (460nm) and white light (3000K-5000K), which is ideal for promoting strong stem and leaf development.
- **BLOOM Mode:** Activate the 'BLOOM' switch for the flowering and fruiting stages. This mode emphasizes red light (660nm) and warm white light (3000K), crucial for flower and fruit production.
- **VEG & BLOOM Mode:** For maximum intensity and a full spectrum suitable for all growth stages, activate both the 'VEG' and 'BLOOM' switches simultaneously. This combined mode provides a balanced spectrum to support plants from seedling to harvest.



Image: Visual representation of the Veg, Bloom, and combined Veg & Bloom modes and their effects on plant development.

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Video: An overview of the KINGLED Grow Light for Indoor Plants, showcasing its features and operation.

7. MAINTENANCE

Regular maintenance ensures optimal performance and longevity of your grow light:

- **Cleaning:** Periodically clean the light's surface and LED panel with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged before cleaning.
- **Fan Inspection:** Check the cooling fans regularly for any obstructions or unusual noises. Keep the fan vents clear to maintain efficient heat dissipation.
- **Cable Check:** Inspect the power cord and hanging cables for any signs of wear or damage. Replace immediately if any damage is found.
- **Environmental Control:** Maintain the recommended operating temperature (50°F to 60°F) and humidity levels in your growing environment to prevent stress on the light and plants.

8. TROUBLESHOOTING

If you encounter issues with your KINGLED KP4000, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Light does not turn on	No power supply; Loose connection; Faulty switch	Check power outlet and cord connection. Ensure both 'VEG' and 'BLOOM' switches are in the ON position. Test with another outlet.
Fans are not operating	Power issue; Fan obstruction	Ensure the light is powered on. Check for any debris blocking the fan blades. If fans remain off, contact support.
Light output is dim or inconsistent	Incorrect mode selected; Dust accumulation; LED failure	Verify the correct mode (VEG, BLOOM, or both) is selected. Clean the LED panel. If individual LEDs are out, contact support.
Overheating	Poor ventilation; Fan malfunction	Ensure adequate airflow around the unit. Clear any obstructions from fans. If fans are not working, refer to 'Fans are not operating' solution.

If the problem persists after attempting these solutions, please contact KINGLED customer support.

9. SPECIFICATIONS

Key technical specifications for the KINGLED KP4000 LED Grow Light:

- **Model:** KP4000
- **Wattage:** 400 Watts
- **LED Count:** 2304 (256 Red, 256 Blue, 896 White, 896 Yellow)
- **Input Voltage:** 100-240VAC
- **Frequency:** 50/60 Hz
- **Coverage Area:** 5x5 ft or 4x4 ft
- **Lumen Maintenance:** 10000
- **Material:** Aluminum
- **Item Weight:** 10.58 Pounds
- **Product Dimensions:** 28.9"L x 13"W x 4.13"H
- **Light Source Type:** Light Emitting Diode
- **Mounting Type:** Ceiling Mount



Image: PPF (Photosynthetic Photon Flux Density) map illustrating light distribution and intensity at various heights.

10. WARRANTY AND SUPPORT

The KINGLED KP4000 LED Grow Light comes with a **3-year professional service warranty** and a **90-day free return policy**. KINGLED is committed to providing high-quality products and customer satisfaction.

For any questions, technical assistance, or warranty claims, please contact KINGLED customer service. They aim to reply within 24 hours to provide a satisfactory resolution.

Manufacturer: KingLED

Seller: KingLED (fulfilled by Amazon)

For additional information or to explore other KINGLED products, visit the [KINGPLUS Store on Amazon](#).