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KOSCHEAL KT600

KOSCHEAL KT600 LED Grow Light Instruction Manual

Model: KT600

1. INTRODUCTION

Thank you for choosing the KOSCHEAL KT600 LED Grow Light. This manual provides essential information for the safe and effective operation of your new grow light. The KT600 is designed to provide a sunlike full spectrum light, ideal for all stages of indoor plant growth, from seedlings to flowering and fruiting. Its advanced LM301B diodes and unique reflector design ensure optimal light distribution and intensity for healthy plant development.

2. PRODUCT FEATURES

- Unique Reflector Design:** Reduces light loss to aisles and walls, increasing light intensity by up to 20% for maximum plant energy absorption without burning.
- Sunlike Full Spectrum:** Utilizes LM301B diodes (3000K, 5000K, 660nm, and IR 730nm) to closely mimic natural sunlight, supporting all plant growth stages.
- Fanless Operation:** Designed for silent operation, making it suitable for use in various indoor environments, including bedrooms.
- Enhanced Safety and Durability:** Features a rubber-covered border for safety and a waterproof coating on the LED board to protect against moisture. Includes a convenient ON/OFF switch.
- High Performance:** Delivers high energy efficiency (PPE of 2.9 umol/J) for powerful light output and uniform canopy penetration, promoting higher yields and quality.



Image: Key features of the KOSCHEAL KT600 LED Grow Light, highlighting its waterproof coating, integrated ON/OFF switch, protective rubber border, and superior light intensity uniformity compared to other designs.

3. PACKAGE CONTENTS

Upon unpacking, please ensure all items are present and undamaged:

- KOSCHEAL KT600 LED Grow Light Unit
- Adjustable Rope Hanger
- Hanging Kit (Carabiners, Ropes)
- Power Cord with ON/OFF Switch
- User Manual

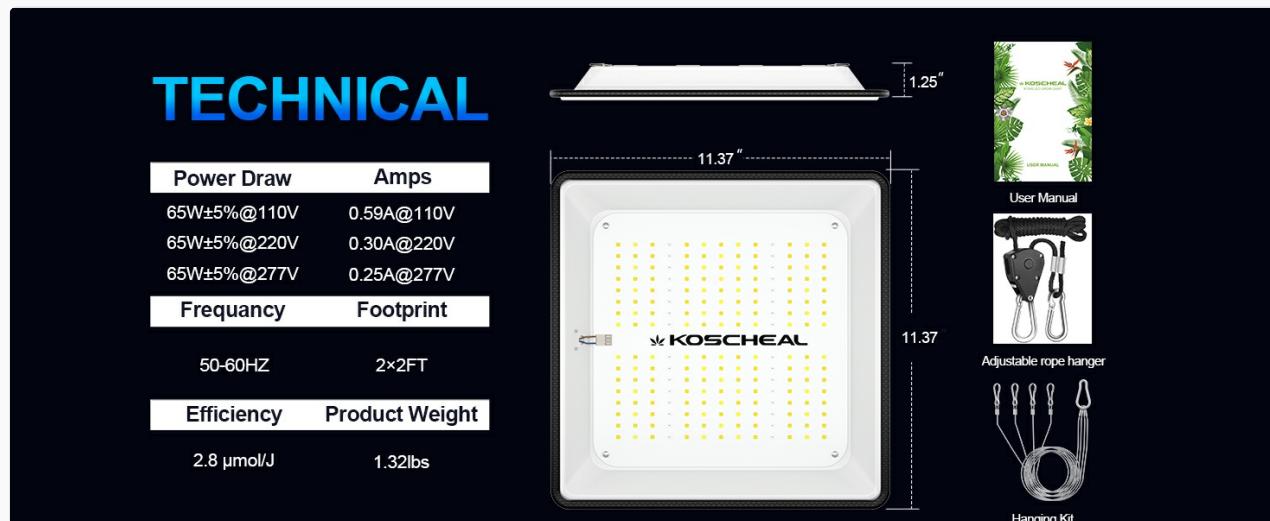


Image: An overview of the KOSCHEAL KT600 LED Grow Light, detailing its physical dimensions and illustrating the included adjustable rope hanger and hanging kit components.

4. SAFETY INSTRUCTIONS

Please read and follow these safety guidelines to prevent injury or damage:

- Always disconnect power before installation, cleaning, or maintenance.
- Do not look directly at the operating LED lights. This can cause eye strain or damage.
- Ensure the grow light is securely mounted to prevent it from falling.
- Keep the light away from water or highly humid environments, despite its waterproof coating, to prevent electrical hazards.
- Do not attempt to modify or disassemble the unit. Refer all servicing to qualified personnel.
- Ensure proper ventilation around the light to dissipate heat, even though it is fanless.

5. SETUP AND INSTALLATION

Follow these steps to install your KOSCHEAL KT600 LED Grow Light:

1. **Unpack:** Carefully remove all components from the packaging.
2. **Attach Hangers:** Connect the carabiners from the hanging kit to the mounting points on the top corners of the grow light.
3. **Mount:** Use the adjustable rope hanger to suspend the light from a sturdy fixture above your plants. Ensure the light is level and stable.
4. **Adjust Height:** Adjust the hanging height according to the specific growth stage of your plants (refer to Section 6: Operating Instructions).
5. **Connect Power:** Plug the power cord into the light unit, then into a standard electrical outlet. Use the integrated ON/OFF switch to control power.

6. OPERATING INSTRUCTIONS

The KOSCHEAL KT600 LED Grow Light is designed for various indoor planting scenarios. Optimize its use by adjusting hanging height and light cycles based on your plants' growth stage.

Using Suggestions For Different Growing Stages



Image: Visual guide for optimal grow light usage, showing recommended hanging distances and light schedules for germination, flowering, and fruiting stages.

Usage Suggestions for Different Growing Stages:

- **Germination Stage:**

Hang Height: Approximately 24 inches (60 cm) above the plants.

Light Cycle: 18 hours ON / 6 hours OFF.

- **Flowering Stage:**

Hang Height: Approximately 12-16 inches (30-40 cm) above the plants.

Light Cycle: 12 hours ON / 12 hours OFF.

- **Fruiting Stage:**

Hang Height: Approximately 10-18 inches (25-45 cm) above the plants.

Light Cycle: 18 hours ON / 6 hours OFF or 20 hours ON / 4 hours OFF.

Note: These are general recommendations. Observe your plants' response and adjust height and duration as needed.

7. MAINTENANCE

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

- **Cleaning:** Periodically wipe the light surface and reflector with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged before cleaning. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Regularly check the power cord and hanging components for any signs of wear or damage. Replace any damaged parts immediately.
- **Environment:** Maintain a clean and stable growing environment to prevent excessive dust buildup on the light.

8. TROUBLESHOOTING

If you encounter issues with your KOSCHEAL KT600 LED Grow Light, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power supply; Faulty power cord/switch; Loose connection	Check power outlet; Ensure power cord is securely plugged in; Test the ON/OFF switch; Try a different outlet.
Light flickers or dims	Unstable power supply; Loose connection; Overheating (unlikely for fanless, but possible in enclosed spaces)	Check power connections; Ensure adequate ventilation; Contact support if problem persists.
Plants show signs of stress (e.g., yellowing, burning)	Light too close to plants; Incorrect light cycle	Increase hanging height; Adjust light cycle according to plant stage (refer to Section 6).

If these solutions do not resolve the issue, please contact KOSCHEAL customer support for further assistance.

9. SPECIFICATIONS

Specification	Value
Model Number	KT600
Brand	KOSCHEAL
Power Draw (110V)	65W ±5% (0.59A)
Power Draw (220V)	65W ±5% (0.30A)
Power Draw (277V)	65W ±5% (0.25A)
Frequency	50-60Hz
Coverage Footprint	2x2 FT (Veg Stage), 1.5x1.5 FT (Bloom Stage)
Efficiency (PPE)	2.9 umol/J
Product Dimensions	28.88 x 28.88 x 3.2 cm (11.37 x 11.37 x 1.25 inches)
Product Weight	1.06 kg (1.32 lbs)
Material	Aluminum
Light Source	LM301B Diodes (3000K, 5000K, 660nm, IR 730nm)

10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included with your purchase or visit the official KOSCHEAL website. If you have any questions or require assistance with your KT600 LED Grow Light, please contact KOSCHEAL customer service directly.

Manufacturer: KOSCHEAL