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› KOSCHEAL KC800 LED Grow Light User Manual

KOSCHEAL KC 800

KOSCHEAL KC800 LED Grow Light User Manual

Model: KC 800

INTRODUCTION

Thank you for choosing the KOSCHEAL KC800 LED Grow Light. This manual provides essential information for the safe and efficient operation of your grow light. The KC800 is designed to provide a full spectrum of light, mimicking natural sunlight to promote healthy and vigorous growth for indoor plants across all stages, from germination to flowering and fruiting. Please read this manual thoroughly before installation and use, and keep it for future reference.

SAFETY INSTRUCTIONS

- Always disconnect the power supply before installing, cleaning, or performing any maintenance on the grow light.
- Do not operate the light in wet or damp conditions. Ensure the installation environment is dry and well-ventilated.
- Avoid looking directly at the LEDs when the light is on, as intense light can cause eye strain or damage.
- Ensure proper ventilation around the light to prevent overheating. The built-in fan assists with cooling, but adequate airflow in the grow area is crucial.
- Do not modify the light or its components. Unauthorized modifications can lead to hazards and void the warranty.
- Keep the light out of reach of children and pets.
- Use only the provided power cable and accessories.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x KOSCHEAL KC800 LED Grow Light
- 1 x Power Cable
- 1 x Hanging Kits
- 1 x Lifting Rope
- 1 x User Manual
- 2 x Zip ties



Image: Contents of the KOSCHEAL KC800 LED Grow Light package, including the light unit, power cable, hanging kits, lifting rope, user manual, and zip ties.

SETUP

1. Mounting the Grow Light

The KOSCHEAL KC800 is designed for ceiling mount installation. Use the provided hanging kits and lifting rope to securely suspend the grow light above your plants. Ensure the mounting point can support the weight of the light (approximately 3.42 pounds). Adjust the height according to the specific needs of your plants at different growth stages.



Image: The KOSCHEAL KC800 LED Grow Light shown suspended by its hanging wires, illustrating a typical ceiling mount setup.

2. Daisy Chain Connection (Optional)

For larger grow areas or commercial setups, the KC800 supports daisy chain functionality. You can connect up to 4 LED grow lights using a single power source, reducing cable clutter and expanding your coverage. The power cable is designed for dual use, serving both as a power connection and for daisy chaining.

Newly upgraded silent cooling system

BUILT-IN SILENT **FAN**

Luminous attenuation: **Reduced 20% ↓**

Spanlife: **100000h**



Image: Diagram showing multiple KOSCHEAL KC800 grow lights connected in a series using the daisy chain feature, illustrating expanded coverage.

3. Power Connection

Once mounted, connect the provided power cable to the grow light and then plug it into a standard 110V AC power outlet. Ensure the connection is secure.

OPERATING INSTRUCTIONS

1. Dimming Function

The KC800 features a precision dimming knob, allowing you to adjust the light intensity from 0% to 100%. This enables you to customize the light output to suit the specific needs of your plants at different growth stages, optimizing energy consumption and preventing light stress on delicate seedlings.

Dimming function

Custom Light Intensity For All Grow Stages



Light Switch



PPFD



Light intensity



Power



Image: A detailed view of the dimming knob on the KOSCHEAL KC800, showing the 0-100% adjustment range for light intensity.

2. Full Spectrum Light Output

The KC800 utilizes 616 high-quality LEDs, including 80 red, 8 IR (infrared), 44 blue, 132 white, and 352 yellow LEDs. This combination provides a full spectrum of light, crucial for photosynthesis and overall plant health.

- **3000K Warm White:** Promotes plant flowering and fruiting.
- **5000K Cold White:** Promotes plant germination and growth.
- **460nm Blue Chips:** Increase growth rate.
- **660nm Red Chips:** For higher yields.
- **730nm IR (Infrared):** Speeds up phytochrome conversion, aiding in plant development and yield.

KC800 FULL SPECTRUM GROW LIGHT

616 LEDs



3000K

352 WARM WHITE
Promote plant flowering and fruiting



IR 730nm

8 DARK RED CHIPS
Speeds up the Phytochrome conversion, allows the plant to produce a greater yield.



5000K

132 COLD WHITE
Promote plant germination and growth



460nm

44 BLUE CHIPS
Increase growth rate



660nm

80 RED CHIPS
For higher yields

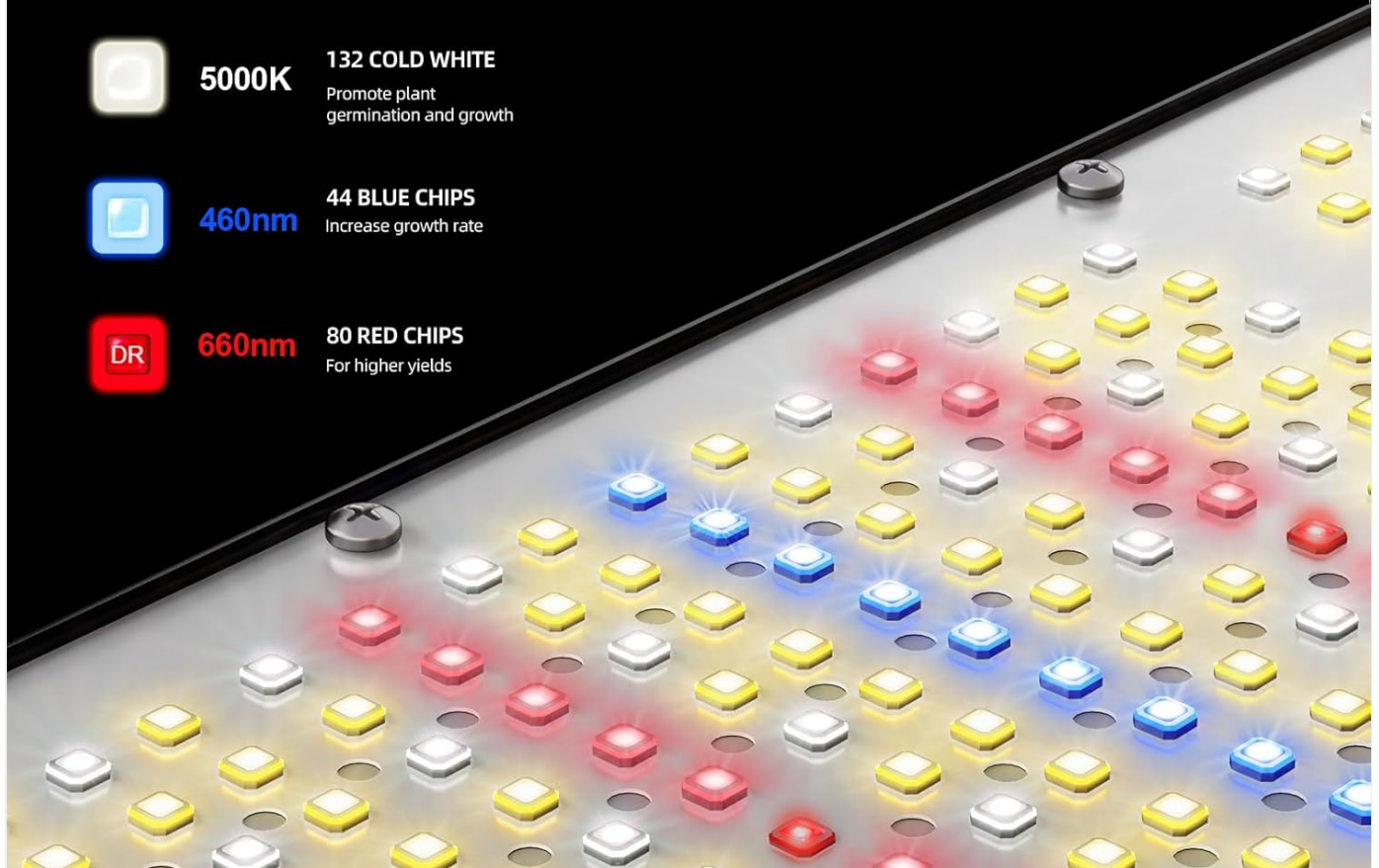


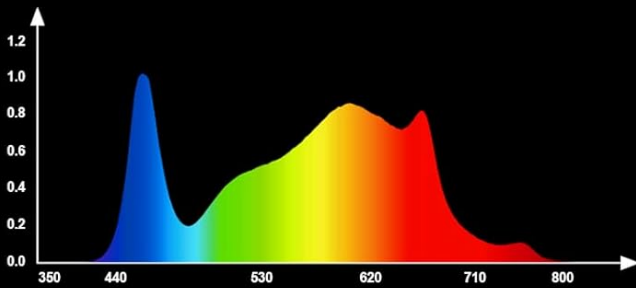
Image: Close-up of the KC800 LED array, highlighting the different types of LEDs (warm white, cold white, blue, red, IR) and their respective wavelengths/color temperatures.

3. Recommended Usage and Coverage

The KC800 provides a 3x3ft coverage for vegetative growth and a 2x2ft coverage for flowering. Adjust the light intensity and hanging height based on the plant's growth stage and specific light requirements.

HIGH PAR VALUE

Adjust height according to plant needs, meet the needs of all plants at different stages



800w

PPFD $\mu\text{mol}/\text{S}/\text{m}^2$
Height: 10"(25.4cm)

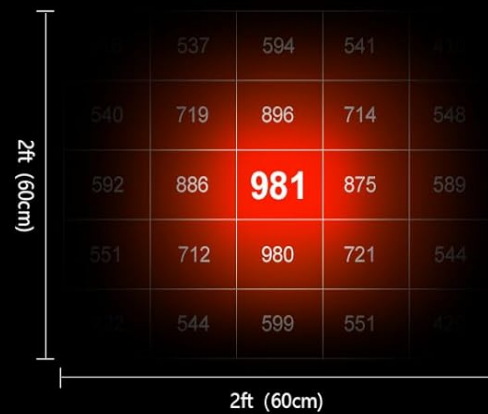


Image: The KOSCHEAL KC800 grow light with a graph illustrating its spectral distribution and a PAR value chart indicating light intensity at various points within a 2x2ft area.

For optimal results, consider the following general guidelines:

- **Seedling Stage:** Higher hanging height, lower intensity (e.g., 20-40%).
- **Vegetative Stage:** Medium hanging height, moderate intensity (e.g., 40-80%).
- **Flowering/Fruiting Stage:** Lower hanging height, higher intensity (e.g., 80-100%).

DAISY CHAIN FUNCTION

Larger Coverage Area & Perfect for Commercial Grow

- The power cable is double use for power connection and daisy chain.
- Up to 4 grow lights connected in series.



Image: The KOSCHEAL KC800 LED Grow Light installed inside a grow tent, providing illumination for plants, demonstrating a typical usage environment.

MAINTENANCE

1. Cleaning

To maintain optimal performance, periodically clean the surface of the grow light and the LED panel. Ensure the light is unplugged and cool before cleaning. Use a soft, dry cloth to gently wipe away dust and debris. Do not use abrasive cleaners or immerse the light in water.

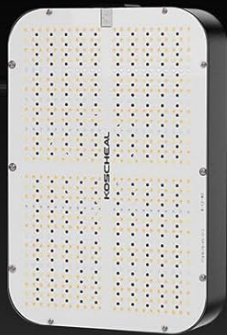
2. Cooling System

The KC800 features a built-in silent fan and industrial-grade aluminum heat sinks to efficiently dissipate heat and prevent overheating. This design reduces luminous attenuation and extends the lifespan of the light to approximately 100,000 hours. Ensure the fan vents are not obstructed to allow for proper airflow.



Package Contents:

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- 1 x Power Cable
- 1 x Hanging Kits
- 1 x Lifting Rope
- 1 x User manual
- 2 x Zip tie



1*KC800 LED Grow Light



1*Power Cable



1*Hanging Kits



1*Lifting Rope



1*User manual



2 *Zip tie

Image: An illustration showcasing the internal silent cooling fan and heat dissipation design of the KOSCHEAL KC800, emphasizing its role in reducing light decay and extending lifespan.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power to the outlet. Power cable not securely connected. Dimmer knob set to OFF or 0%.	Check the power outlet with another device. Ensure the power cable is firmly plugged into both the light and the wall outlet. Rotate the dimmer knob clockwise to increase intensity.

Problem	Possible Cause	Solution
Light flickers or dims unexpectedly.	Loose power connection. Overheating (unlikely due to silent fan, but possible in extreme conditions).	Check all power connections for tightness. Ensure adequate ventilation around the light.
Reduced light output over time.	Dust accumulation on LEDs. Normal aging of LEDs (very long lifespan).	Clean the LED panel gently with a soft, dry cloth. This is expected only after many years of continuous use.

If you encounter issues not listed here or if the suggested solutions do not resolve the problem, please contact KOSCHEAL customer support for assistance.

SPECIFICATIONS

Feature	Detail
Model	KC 800
Wattage	80 Watts
Voltage	110 Volts
Light Source Type	LED (Light Emitting Diode)
Number of Light Sources	616 LEDs (80 red, 8 IR, 44 blue, 132 white, 352 yellow)
PAR Efficiency	2.9 $\mu\text{mol/J}$
Color Temperature	3000K (Warm White), 5000K (Cold White)
Dimmable	Yes (0-100%)
Coverage Area (Veg)	3x3 ft
Coverage Area (Bloom)	2x2 ft
Material	Aluminum
Cooling System	Built-in Silent Fan, Aluminum Heat Sinks
Lifespan	Approx. 100,000 hours
Product Dimensions (L x W x H)	12.28" x 8.35" x 1.97"
Item Weight	3.42 Pounds
Mounting Type	Ceiling Mount

WARRANTY AND SUPPORT

KOSCHEAL offers a **3-year after-sales service** for the KC800 LED Grow Light, ensuring peace of mind for your purchase. Additionally, a **30-day free return policy** is available from our US warehouse.

For any questions, concerns, or technical support, please do not hesitate to reach out to our dedicated customer support team. We are committed to providing professional and friendly service, with responses typically provided within 24 hours to address your needs.

Please refer to your purchase documentation or the KOSCHEAL official website for specific contact methods and further warranty details.