KOSCHEAL KS1200

KOSCHEAL KS1200 LED Grow Light User Manual

Model: KS1200 | Brand: KOSCHEAL

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and efficient operation of your KOSCHEAL KS1200 LED Grow Light. This full-spectrum grow light is designed for hydroponic and indoor plant cultivation, featuring Veg and Bloom switches and daisy chain compatibility. Please read this manual thoroughly before installation and use to ensure optimal performance and longevity of your device.

Image 1.1: KOSCHEAL KS1200 LED Grow Light and its components, including power cord, hanging kit, and daisy chain connectors.

2. SAFETY INFORMATION

- Always disconnect power before installing, cleaning, or performing any maintenance on the grow light.

- Do not look directly at the LED lights when the unit is operating. The intense light can cause eye strain or damage.

- Ensure the grow light is installed in a well-ventilated area to prevent overheating.

- This product is designed for indoor use only. Do not expose to water or high humidity environments. The unit is water resistant, but not waterproof.

- Do not block the cooling fans or vents. Adequate airflow is crucial for heat dissipation and product longevity.

- Keep the light away from flammable materials.

- The reflector design is intentionally omitted to prevent melting and fire hazards in case of a short circuit.

- Use only the provided power cord and hanging accessories.

3. PACKAGE CONTENTS

Verify that all items listed below are present and in good condition upon opening the package:

- 1 x KOSCHEAL KS1200 LED Grow Light
- 1 x Power Cord
- 1 x Hanging Kit (includes hangers and lifting rope)
- 1 x User Manual

VEG MODE
Use for germination/seedling
stage and early leaf stage
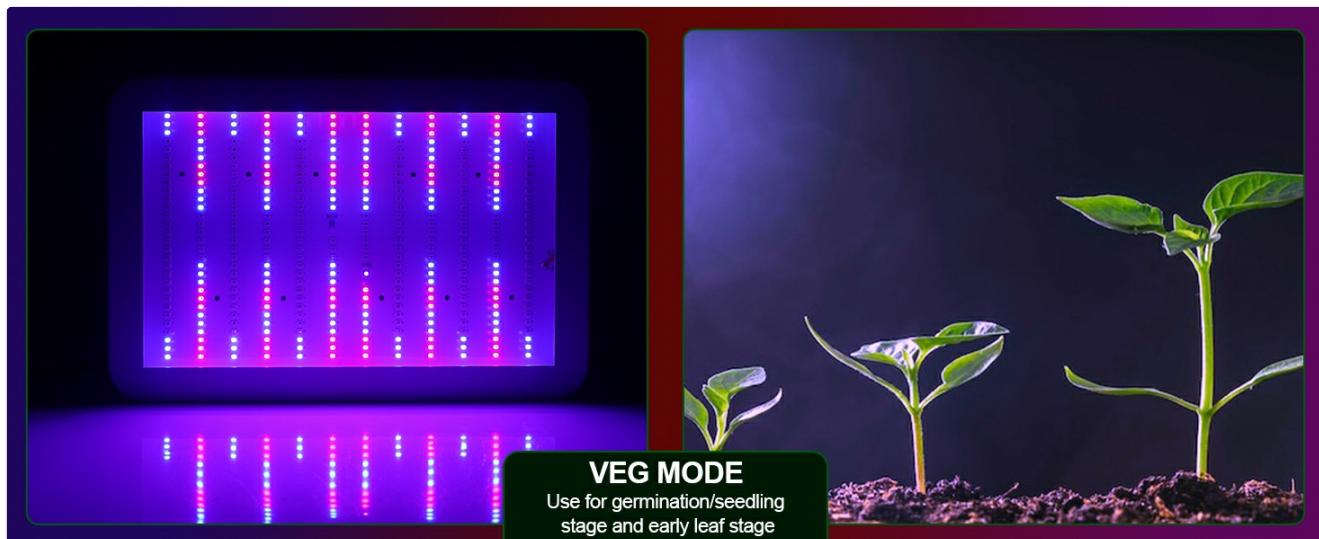
Image 3.1: Visual representation of the product and its standard accessories.

4. PRODUCT FEATURES

- **High Efficiency LED Diodes:** Utilizes LM301B diodes and SMD LED technology for high PAR/LUMEN output (2.8umol/J), designed to replace 300W HPS/CMH grow lights.

- **Full Spectrum Lighting:** Features 360 LEDs including 460nm (blue), 620nm (red), 730nm (IR), and 396nm (UV) to mimic natural sunlight and support all plant growth stages. UV diodes stimulate anthocyanins for improved fruit and flower quality.

- **Veg & Bloom Switches:** Independent switches allow for customized light spectrums suitable for vegetative growth (Veg mode) and flowering/fruiting stages (Bloom mode), or a combination of both.

- **Daisy Chain Functionality:** Connect up to 5 units together using a single power outlet, reducing cable clutter and extending coverage for larger grow areas. Ideal for commercial setups.

- **Advanced Cooling System:** Equipped with high-speed, quiet cooling fans and upgraded aluminum heat sinks to ensure efficient heat dissipation, slow down light decay, and extend the lifespan of the LEDs.

- **Optimal Coverage:** Provides perfect coverage for 3'x3' vegetative growth and 2'x2' flowering coverage.
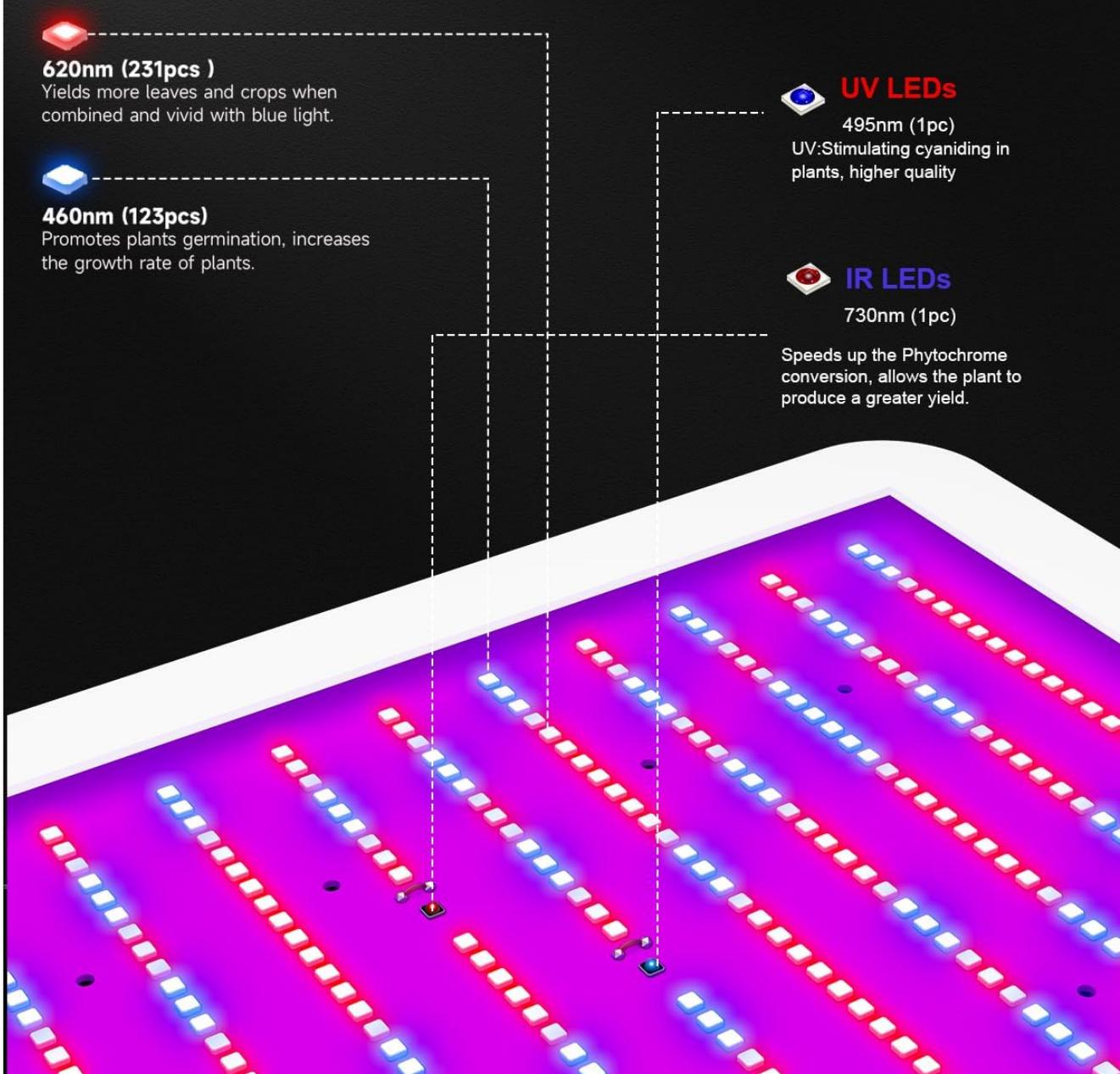
Image 4.1: Detailed view of the Samsung LM301B Diodes and their specific wavelengths.

ADVANCED COOLINGH SYSTEM

Light decay: **20%** ☀

Spanlife: **100000h** ⏱

Fan: **2PCS**

Image 4.2: Illustration of the efficient heat dissipation mechanism with dual cooling fans.

5. SETUP AND INSTALLATION

5.1 Hanging the Grow Light

1. Unpack the grow light and all accessories carefully.

2. Attach the provided hanging ropes to the four corners of the grow light. Ensure they are securely fastened.

3. Connect the other end of the ropes to the included hangers.

4. Hang the grow light from a sturdy support structure in your grow area. Adjust the height using the lifting rope to achieve the desired distance from your plants. Refer to the "Operating Instructions" section for recommended hanging heights.

5.2 Daisy Chain Connection

The KS1200 supports daisy chaining, allowing multiple units to be powered from a single outlet. This is ideal for expanding your grow area.

- Connect the power cord to the first grow light's input port.

- Use the daisy chain cable (which is the same as the power cable) to connect the output port of the first light to the input port of the second light.

- Repeat this process for additional lights. **Important: Do not connect more than 5 grow lights in a single daisy chain to prevent overloading the circuit.**

- Ensure all connections are firm and secure before plugging the main power cord into a wall outlet.

DAISY CHAIN FUNCTION

Larger Coverage Area & Perfect for Commercial Grow

- The power cable is double use for power connection and daisy chain.

- Up to 3 grow lights connected in series.
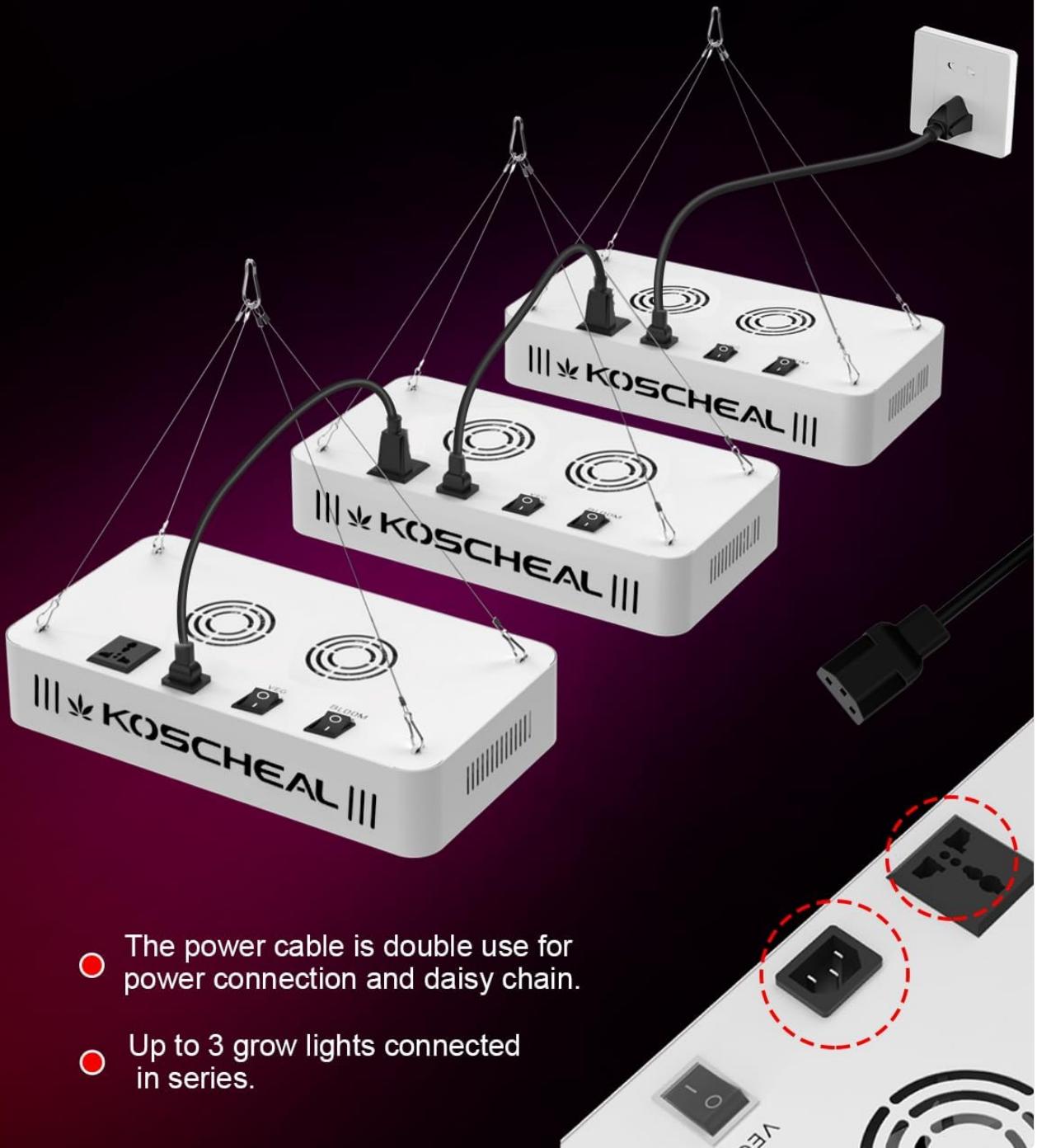
Image 5.1: Daisy chain setup for connecting multiple grow lights.

6. OPERATING INSTRUCTIONS

6.1 Powering On/Off

Once installed, plug the power cord into a standard 100-240V AC outlet. The light will power on according to the switch

settings.

6.2 Veg and Bloom Modes

The KS1200 features two independent switches to optimize the light spectrum for different growth stages:

- **Veg Mode:** Activate the "Veg" switch for germination, seedling, and early leaf stages. This mode provides a spectrum rich in blue light, promoting strong vegetative growth.

- **Bloom Mode:** Activate the "Bloom" switch for flowering and fruiting periods. This mode emphasizes red and IR light, crucial for flower and fruit development.

- **Veg + Bloom Mode:** For maximum intensity and full spectrum coverage during flowering and fruiting stages, activate both "Veg" and "Bloom" switches.

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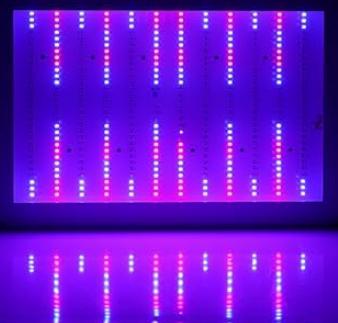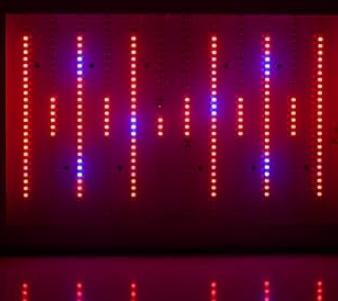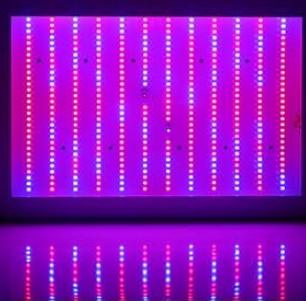
Image 6.1: Visual guide to Veg, Bloom, and combined Veg+Bloom light modes.

6.3 Recommended Hanging Heights and Lighting Schedule

Adjust the light height based on the plant's growth stage and specific needs. The following are general recommendations:

Growth Stage	Recommended Height	Lighting Mode	Lighting Duration
Seedling	24-30 inches (60-75 cm)	Veg	16-18 hours on / 6-8 hours off
Vegetative	18-24 inches (45-60 cm)	Veg	16-18 hours on / 6-8 hours off

Growth Stage	Recommended Height	Lighting Mode	Lighting Duration
Flowering	12-18 inches (30-45 cm)	Veg + Bloom	12 hours on / 12 hours off
Fruiting	12-18 inches (30-45 cm)	Veg + Bloom	12 hours on / 12 hours off

Note: These are general guidelines. Observe your plants for signs of stress (e.g., leaf burn, stretching) and adjust light height accordingly.
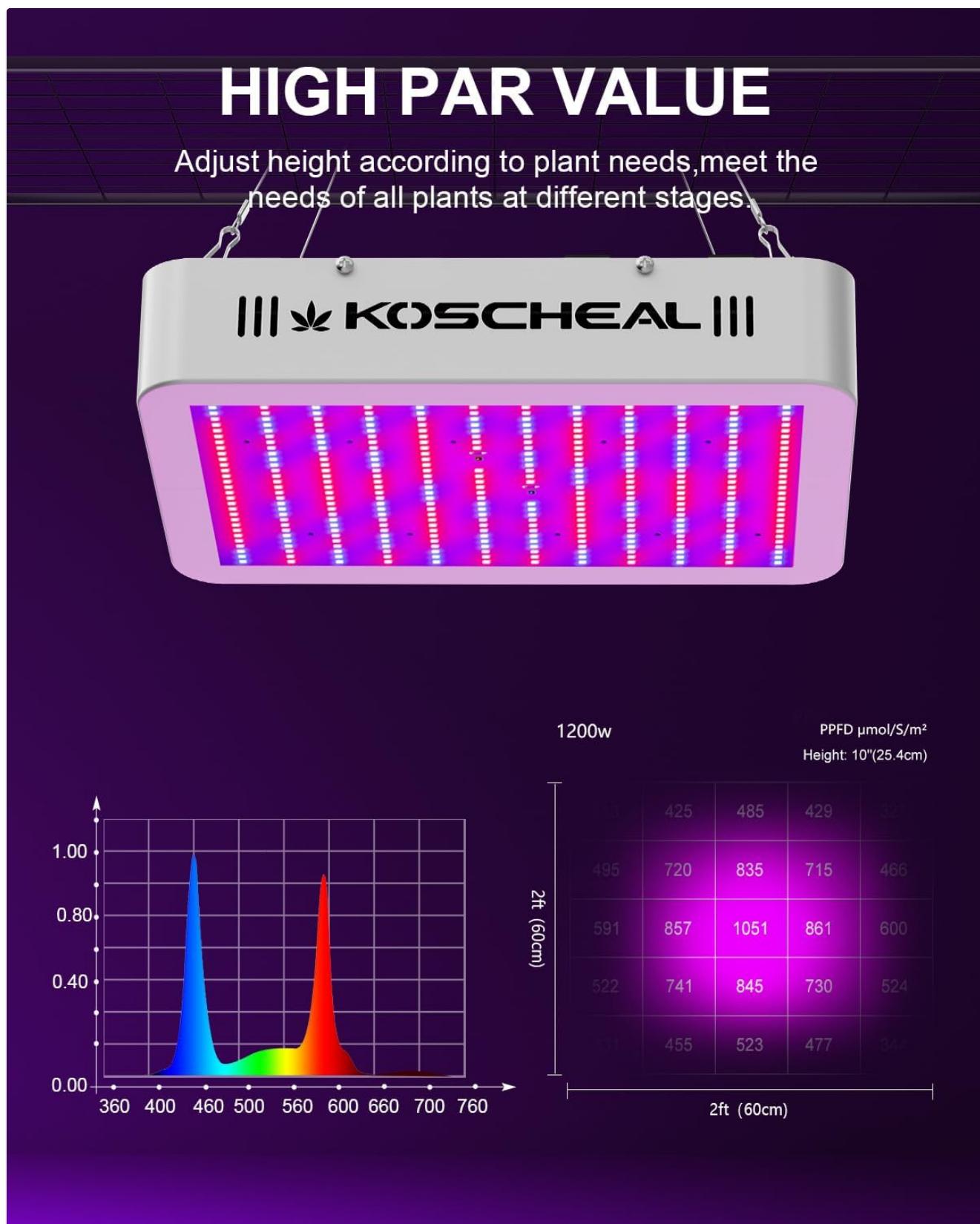

Image 6.2: PPFD (Photosynthetic Photon Flux Density) map and spectrum chart for the KS1200.

7. MAINTENANCE

- **Cleaning:** Regularly clean the surface of the grow light and the LED lenses with a soft, dry cloth to remove dust and debris. Ensure the unit is unplugged and cool before cleaning. Do not use liquid cleaners directly on the light.

- **Fan Maintenance:** Periodically check the cooling fans for dust buildup. Use compressed air to gently clear any obstructions from the fan blades and vents to maintain optimal airflow.

- **Storage:** If storing the grow light for an extended period, disconnect it from power, clean it thoroughly, and store it in a cool, dry place away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Light does not turn on.	No power supply; loose connection; faulty outlet.	Check if the power cord is securely plugged into both the light and the outlet. Test the outlet with another device. Ensure switches are in the "ON" position.
Some LEDs are not lit.	Specific LED array issue; switch not activated.	Ensure both "Veg" and "Bloom" switches are activated if you expect all LEDs to be on. If specific LEDs remain off, contact customer support.
Light is dim or flickering.	Unstable power supply; unit overheating.	Ensure the power source is stable. Check for proper ventilation and clear any obstructions from the cooling fans.
Excessive noise from fans.	Dust buildup in fans; fan malfunction.	Clean the fans using compressed air. If noise persists, contact customer support.
Daisy chain not working.	Incorrect connection; exceeding maximum units.	Verify all daisy chain cables are correctly connected. Ensure no more than 5 units are connected in series.

9. SPECIFICATIONS

Feature	Detail
Model	KS1200
Brand	KOSCHEAL
Power Consumption	130W ±5%
Input Voltage	100-240V AC
LED Type	Samsung LM301B Diodes, SMD LED
Number of LEDs	360 (460nm, 620nm, 730nm IR, 396nm UV)

Feature	Detail
Efficiency	2.8 umol/J
Lumen Output	140 Lumen
Coverage Area (Veg)	3' x 3' (0.9m x 0.9m)
Coverage Area (Flower)	2' x 2' (0.6m x 0.6m)
Dimensions (L x W x H)	10.3" x 6.9" x 2" (26.16cm x 17.53cm x 5.08cm)
Item Weight	3.31 lbs (1.5 kg)
Material	Aluminum
Cooling	2 x High-speed, quiet fans + Aluminum heat sinks
Daisy Chain Capacity	Up to 5 units
Lifespan	100,000 hours (estimated)
Water Resistance Level	Water Resistant

10. WARRANTY AND SUPPORT

10.1 Warranty Information

KOSCHEAL offers a **3-year warranty** for the KS1200 LED Grow Light, covering manufacturing defects and malfunctions under normal use. Additionally, a **30-day free return policy** is provided from our US warehouse for added peace of mind. Please retain your proof of purchase for warranty claims.

10.2 Customer Support

For any questions, concerns, or technical assistance regarding your KOSCHEAL KS1200 LED Grow Light, please contact our dedicated support team. We are committed to providing a solution tailored to your needs and aim to respond within 24 hours.

Contact Information:

Brand: KOSCHEAL

Seller: KOSCHEAL (via Amazon)

For direct support, please refer to the contact details provided on the product packaging or the official KOSCHEAL website.

Related Documents

	KOSCHEAL Q09 Gimbal Stabilizer User Manual: Features, Operation, and Specifications
	Comprehensive user manual for the KOSCHEAL Q09 Gimbal Stabilizer. Learn about its features, Bluetooth connection, fill light operation, remote control functions, charging, and specifications for optimal smartphone photography and videography.
	KOSCHEAL P02 Auto Face Tracking Gimbal User Manual
	User manual for the KOSCHEAL P02 Auto Face Tracking Gimbal, detailing its operation, features, connection, gestures, charging, and tripod mounting. Includes product specifications and usage instructions.