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BESTVA PRO4000

BESTVA Dimmable Pro4000W LED Grow Light

Model: PRO4000 User Manual

1. Product Overview

The BESTVA Dimmable Pro4000W LED Grow Light is designed to provide a full spectrum light source for indoor plant cultivation. This high-efficiency grow light features Samsung LM301B diodes and a precise dimming system, allowing for adjustable light intensity suitable for various plant growth stages. Its robust construction ensures durability and performance in diverse indoor environments.

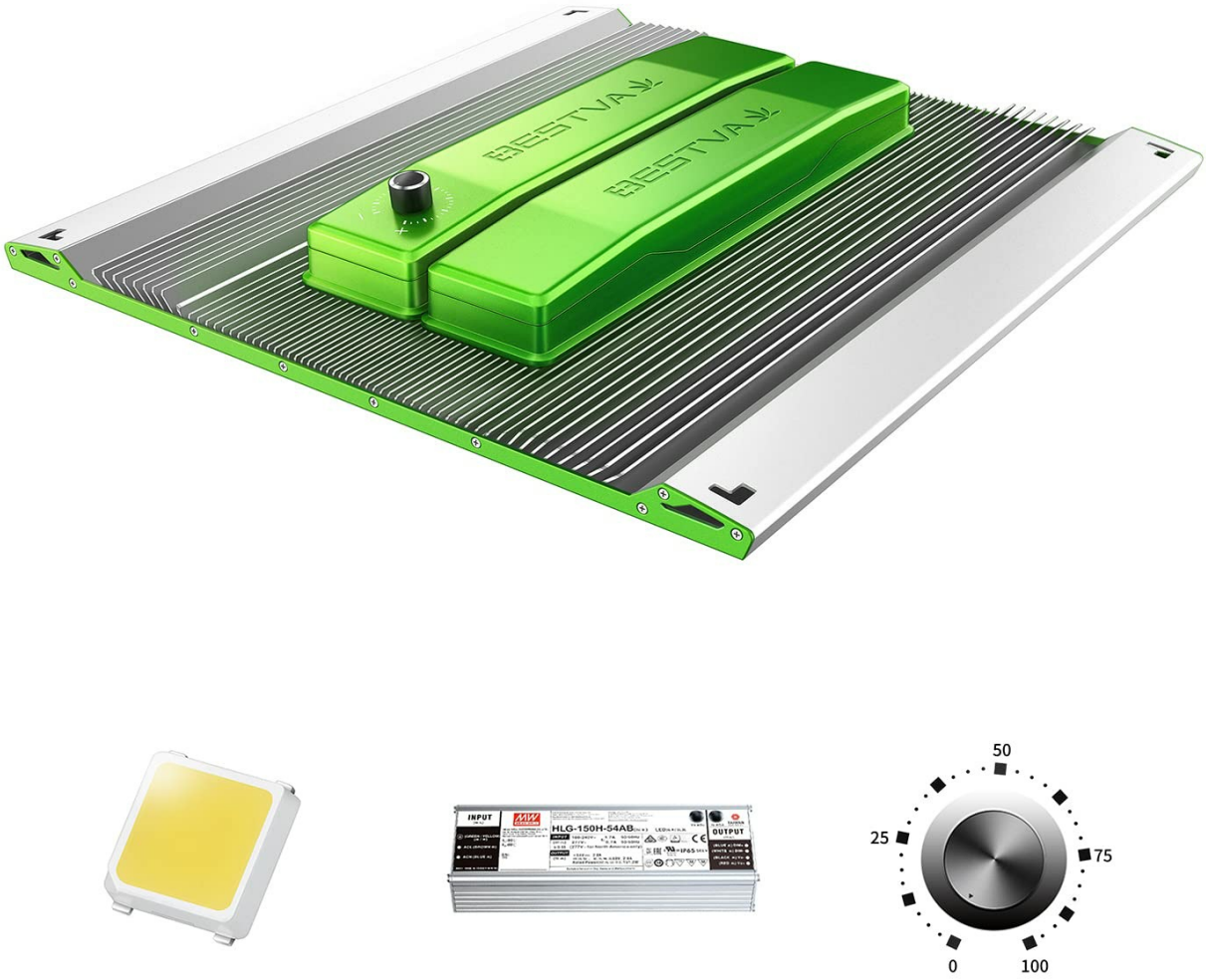


Figure 1: BESTVA Dimmable Pro4000W LED Grow Light.



Figure 2: The Pro4000W features an IP65 waterproof design, making it suitable for humid indoor growing environments.

2. Package Contents

Verify that all components are present in the package before proceeding with installation.

- Pro 4000 LED Grow Light
- Power Cord
- Hanging Kits
- Adjustable Rope Hangers
- User Manual
- Grow Light Glasses (for eye protection)



Figure 3: Overview of the BESTVA Pro Series, including the Pro4000 model.

3. Setup Instructions

1. **Unpacking:** Carefully remove all components from the packaging. Inspect the light for any signs of damage.
2. **Hanging the Light:** Attach the provided hanging kits to the four corners of the grow light. Use the adjustable rope hangers to suspend the light from a sturdy support structure in your grow area. Ensure the light is level and securely fastened.
3. **Connecting Power:** Connect the power cord to the grow light and then plug it into a standard 110V electrical outlet. Ensure the outlet is properly grounded.
4. **Placement:** For optimal plant growth, position the light at an appropriate distance from your plants. Refer to the operating instructions for recommended light intensity and height settings for different growth stages.

4. Operating Instructions

The BESTVA Pro4000W LED Grow Light offers precise control over light output to meet your plants' needs.

- **Power On/Off:** The light can be turned on or off using the integrated dimmer switch.
- **Dimming Control:** Use the dimmer knob to adjust the light intensity from 0% to 100%. This allows for customization of light levels during different growth phases, such as seedling, vegetative, and flowering stages.



Figure 4: The precise dimming system allows for 0-100% light intensity adjustment.

- **Full Spectrum Output:** The light provides a full spectrum, including 3000K Warm White, 5000K White, 660nm Red, and 730nm IR light, optimized for comprehensive plant development from seedling to flowering.

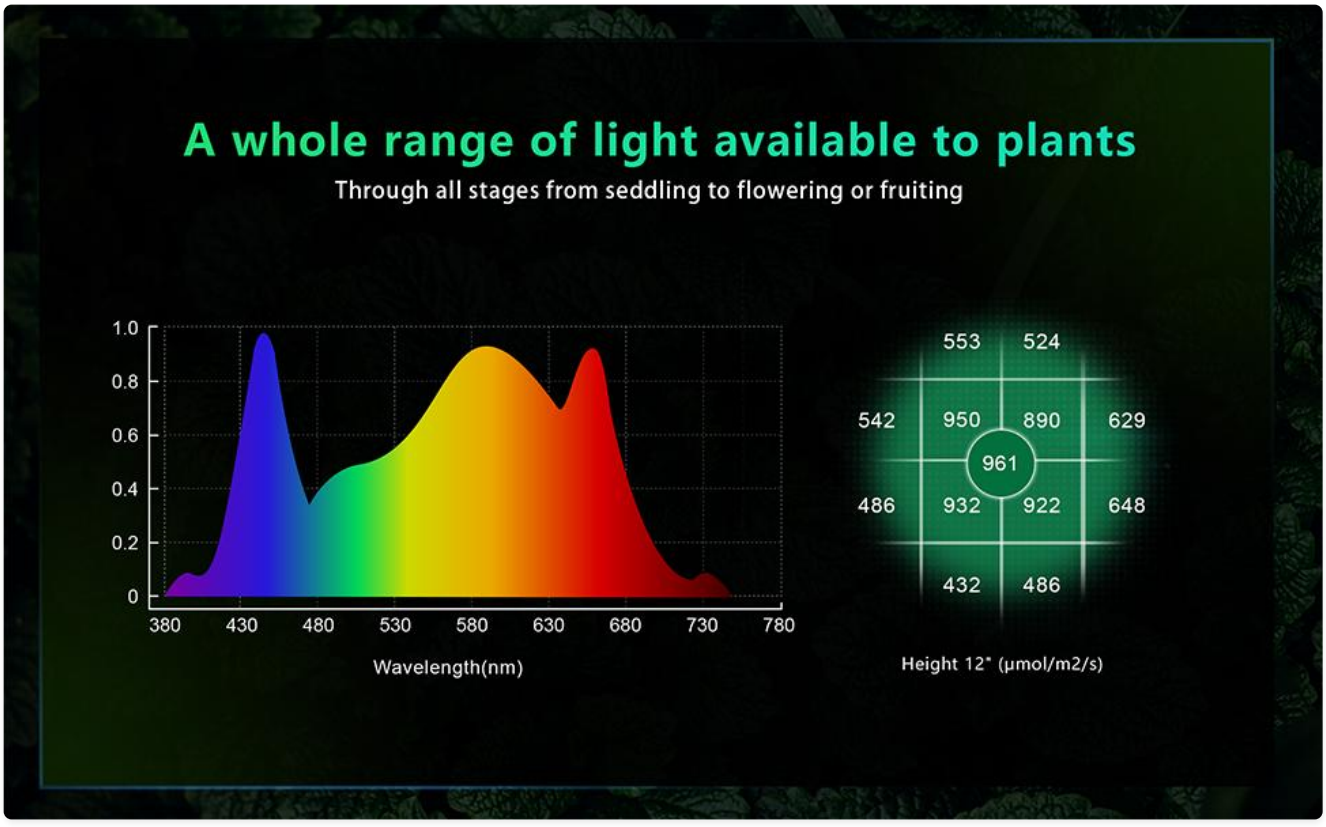


Figure 5: Full spectrum output with Samsung LM301B Diodes, supporting all growth stages.

- **PAR Value Performance:** The light delivers high Photosynthetically Active Radiation (PAR) values, crucial for plant photosynthesis.



Figure 6: PAR value distribution at 12" and 18" heights, demonstrating light intensity across the coverage area.

5. Maintenance

- **Cleaning:** Ensure the light is unplugged before cleaning. Gently wipe the LED board and housing with a soft, dry cloth to remove dust and debris. Avoid using harsh chemicals or abrasive materials.
- **Ventilation:** Ensure adequate airflow around the grow light to prevent overheating. Do not block the ventilation fins on the unit.
- **Connection Checks:** Periodically inspect all electrical connections for security and integrity.

6. Troubleshooting

- **Light Not Turning On:**
  - Check if the power cord is securely plugged into both the light and the electrical outlet.
  - Verify that the outlet is functional by plugging in another device.
  - Ensure the dimmer switch is not set to 0% (off position).
- **Inconsistent Dimming:**
  - Ensure the dimmer knob is clean and free of obstructions.
  - If issues persist, contact customer support.
- **Excessive Heat:**
  - Ensure the grow light has sufficient clearance for proper airflow.
  - Verify that the ambient temperature in the grow area is within acceptable limits.

7. Specifications

Feature	Specification
Product Dimensions	21.38"D x 20.18"W x 3.03"H
Item Weight	11.66 Kilograms
Shade Material	Aluminum
Switch Type	Dimmer
Additional Features	Dimmable, Full Spectrum, High Efficiency, Low Cost
Light Source Type	LED
Power Source	Corded Electric
Number of Light Sources	912
Mounting Type	Ceiling Mount
Wattage	4000 watts
Lighting Method	LED
Control Method	Touch
Water Resistance Level	Not Water Resistant (Note: IP65 rating implies protection against water jets, but not full immersion. Refer to manufacturer for specific IP rating details.)
Efficiency	2.9 lm/W
Voltage	110 Volts
Color	White
Indoor Outdoor Usage	Indoor
Model Number	PRO4000
UPC	750153363636

8. Warranty and Support

The BESTVA Dimmable Pro4000W LED Grow Light comes with a**3-year warranty**, providing assurance for product quality and performance. For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact BESTVA customer support through their official website or the retailer where the product was purchased. Please have your model number (PRO4000) and purchase information ready when contacting support.

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