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VIPARSPECTRA V600

VIPARSPECTRA V600 600W LED Grow Light Instruction Manual

Model: V600

1. INTRODUCTION

This manual provides detailed instructions for the safe and effective use of your VIPARSPECTRA V600 600W LED Grow Light. This full-spectrum LED light is designed to support indoor plant growth through all stages, from vegetative to flowering, offering energy-efficient illumination.



Image 1: VIPARSPECTRA V600 600W LED Grow Light, showcasing its compact design and multiple LED panels.

2. SAFETY INFORMATION

- For indoor use only. This product is not waterproof.
- Do not look directly at the LED lights when they are operating, as intense light can cause eye strain. Protective eyewear is recommended.
- Ensure proper ventilation around the light to prevent overheating.
- Keep the light away from water and other liquids.
- Do not attempt to disassemble or modify the unit. Refer all servicing to qualified personnel.

- Ensure the power cord is securely connected and not damaged.

3. PACKAGE CONTENTS

The VIPARSPECTRA V600 package includes the following items:

- 1 x V600 LED Grow Light
- 1 x Power Cord (US standard, dual-purpose for daisy chain)
- 1 x Hanging Kit (includes adjustable ropes and carabiners)
- 1 x User Instructions Manual (this document)



Image 2: Rear view of the V600 light, showing the power input, daisy chain output, and hanging points, along with the included power cord and hanging kit.

4. PRODUCT FEATURES

- **Optimal Full Spectrum:** The V600 LED Grow Light provides an optimal full spectrum designed to support plants through all growth stages, from vegetative to flowering. This spectrum aims to provide essential light wavelengths for plant development.
- **VEG & BLOOM Switches:** Equipped with separate VEG and BLOOM switches, allowing users to customize the light spectrum for specific growth phases. The VEG switch provides a blue-heavy spectrum for vegetative growth, while the BLOOM switch adds more red light for flowering. Both switches can be activated simultaneously for a full-

spectrum output.

- **Daisy Chain Function:** This feature allows multiple V600 lights to be connected in series using a single power outlet. The included power cord can also serve as a daisy chain cable. For safety, the total true wattage of all daisy-chained lights must not exceed 600W. A maximum of two additional V600 units can be connected.
- **Efficient Cooling System:** Features upgraded aluminum cooling heat sinks and advanced high-speed quiet fans for effective heat dissipation, contributing to the light's longevity and stable performance.

Package Includes:

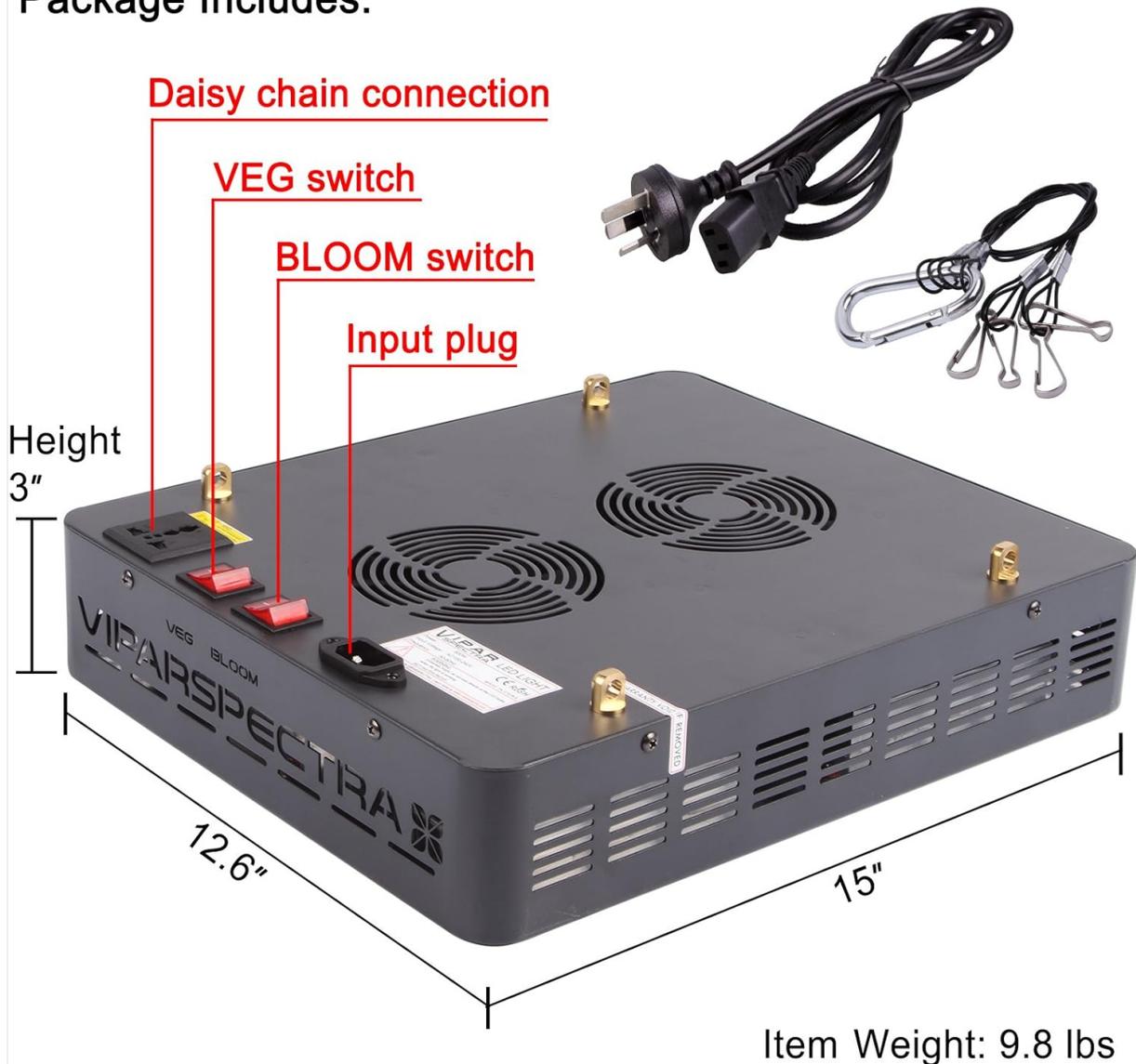


Image 3: Illustration of the 12-band full spectrum, showing different wavelengths (IR 730nm, 660nm, 630nm, 615nm, 595nm, 580nm, 475nm, 460nm, 445nm, 440nm, 3000K, 7500K) and the appearance of the light in VEG ON and BLOOM ON modes. Note: IR LEDs may appear dim or off.

Video 1: An overview of the VIPARSPECTRA Reflector-Series V600 LED Grow Light, demonstrating its full spectrum capabilities for indoor plant cultivation.

5. SETUP AND INSTALLATION

1. **Unpacking:** Carefully remove the LED grow light and all accessories from the packaging. Inspect for any damage.
2. **Hanging the Light:** Attach the provided hanging kit to the four hanging points on the top of the light fixture. Use the adjustable ropes to suspend the light at the desired height above your plants. Ensure the light is securely fastened.
3. **Power Connection:** Plug the power cord into the input socket on the light fixture and then into a suitable electrical outlet.
4. **Daisy Chain Connection (Optional):** To connect multiple V600 lights, plug the power cord from the first light's

output socket into the input socket of the second light. Repeat for additional units, ensuring the total true wattage does not exceed 600W.

VIPARSPECTRA V600 Output Spectrum Test Report

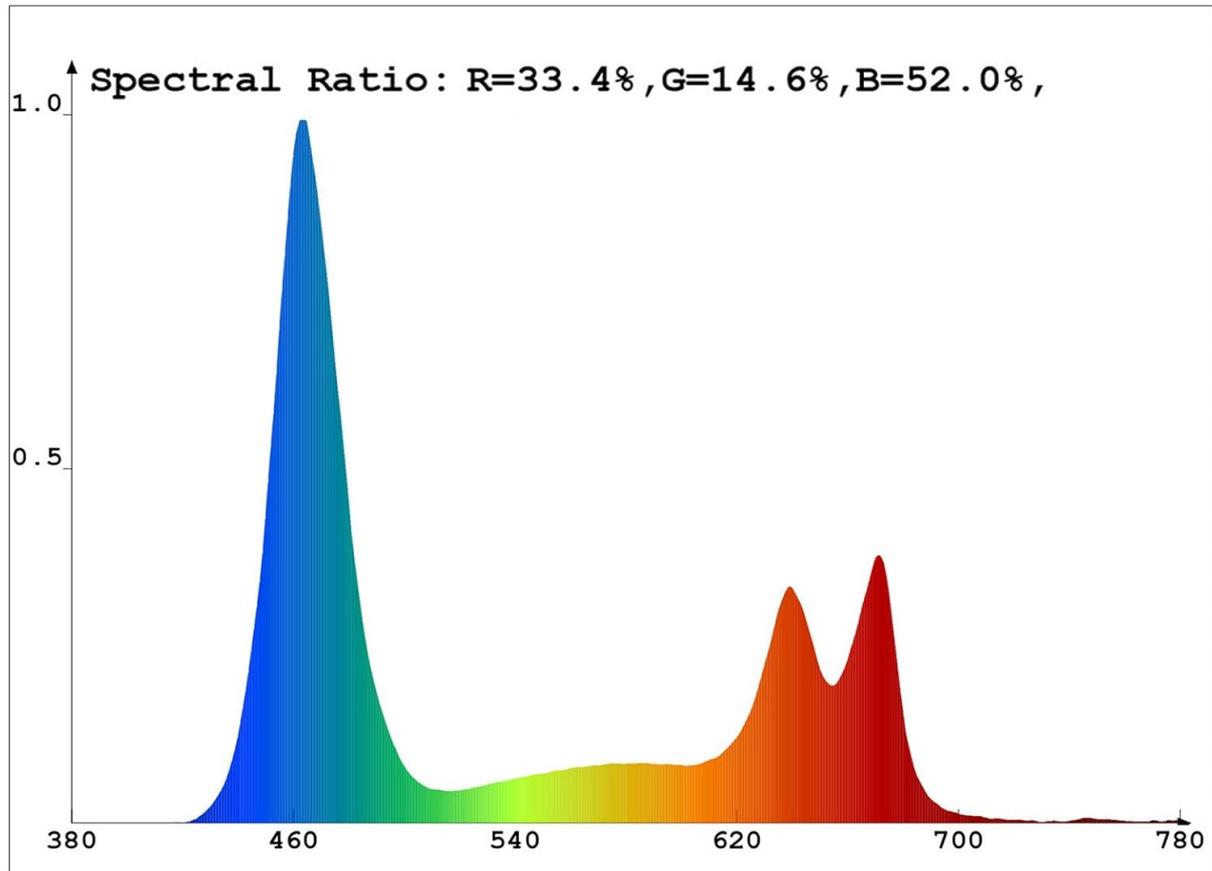


Photo Parameters

Flux: 8118.43lm Effi.: 29.4lm/W Radiant: 404582.0mW Iv: 0.0mcd

Ele. Parameters

Voltage: U=225.400V

Current: I=1.2549A

Power: P=269.28W

Power Factor: PF=0.952

Image 4: The V600 LED Grow Light suspended inside a grow tent, demonstrating a typical installation setup.



Image 5: A side view of the V600 LED Grow Light within a grow tent, highlighting its placement relative to the tent structure.

6. OPERATING INSTRUCTIONS

- 1. Activating Switches:** Use the VEG and BLOOM switches located on the top of the unit to select the desired lighting mode.
 - **VEG Switch:** Activates the blue-dominant spectrum for the vegetative growth phase.
 - **BLOOM Switch:** Activates the red-dominant spectrum for the flowering and fruiting phase.
 - **Both Switches ON:** Provides a full spectrum suitable for all growth stages, often used during flowering for enhanced results.
- 2. Recommended Hanging Height and Duration:**
 - **Vegetative Stage:** Hang the light at 28"-40" above the plants. Run the lights for approximately 18 hours per day. The 600W LED grow light is suitable for a 3'x3' vegetative coverage at 32" height.
 - **Flowering/Fruiting Stage:** Hang the light at 18"-24" above the plants. Run the lights for approximately 12 hours per day with both VEG and BLOOM switches activated. The 600W LED grow light is suitable for a 2.5'x2.5' flowering coverage at 22" height.
- 3. Adjusting Height:** Always adjust the hanging height of the light according to your plant's specific needs and growth stage for optimal development.

Grow Tent : 100x100x200cm



Image 6: Diagram illustrating the recommended coverage area (3'x3' for veg, 2.5'x2.5' for flower) and corresponding hanging heights for the V600 LED Grow Light.

7. PERFORMANCE DATA

The following data provides insights into the light output and spectral characteristics of the VIPARSPECTRA V600 LED Grow Light.

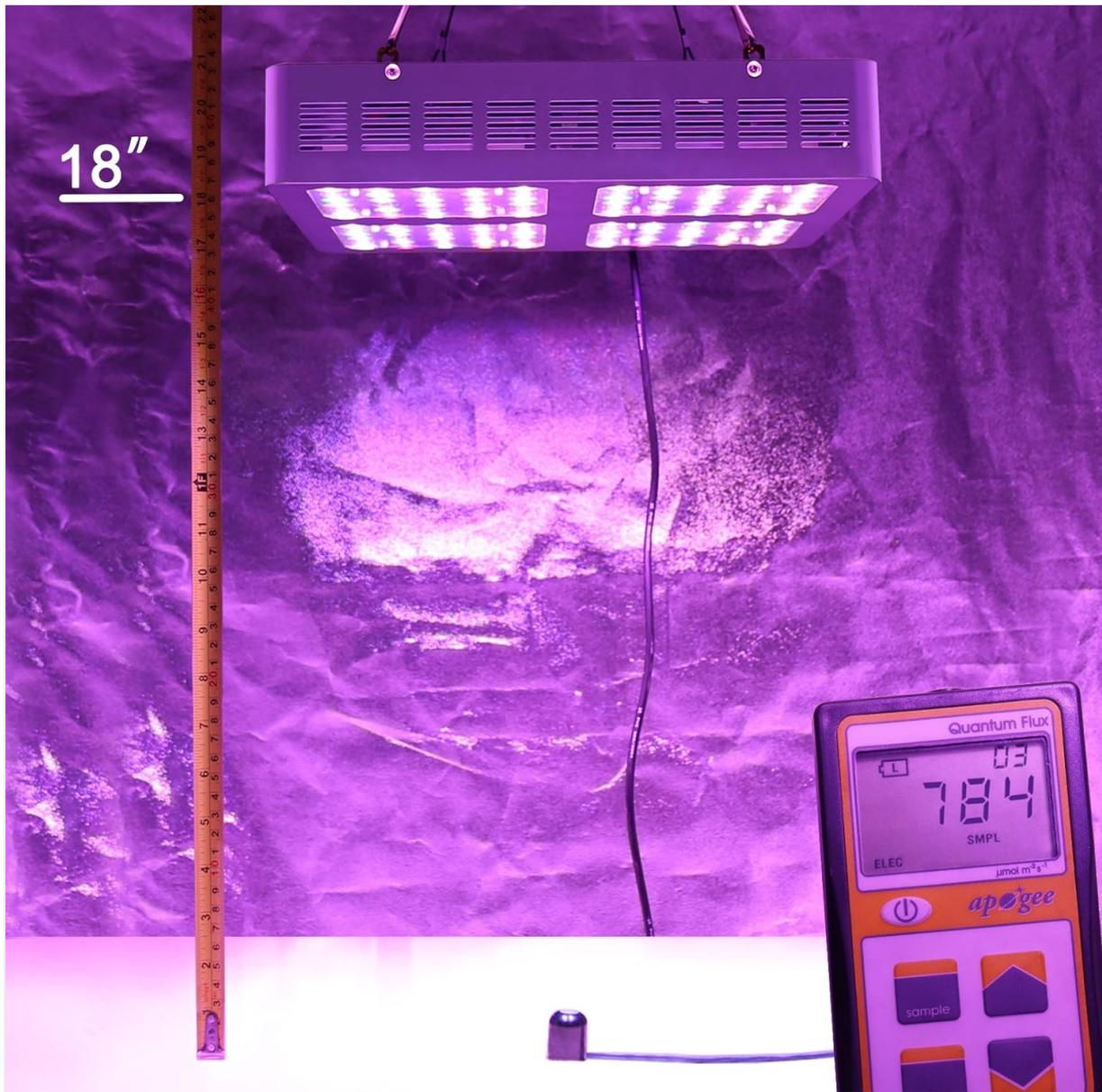


Image 7: A quantum flux meter displaying a PAR (Photosynthetically Active Radiation) reading of $784 \mu\text{mol m}^{-2} \text{s}^{-1}$ at an 18-inch hanging height from the V600 light.

VIPARSPECTRA V600 PAR Value

Light was positioned at 24" height

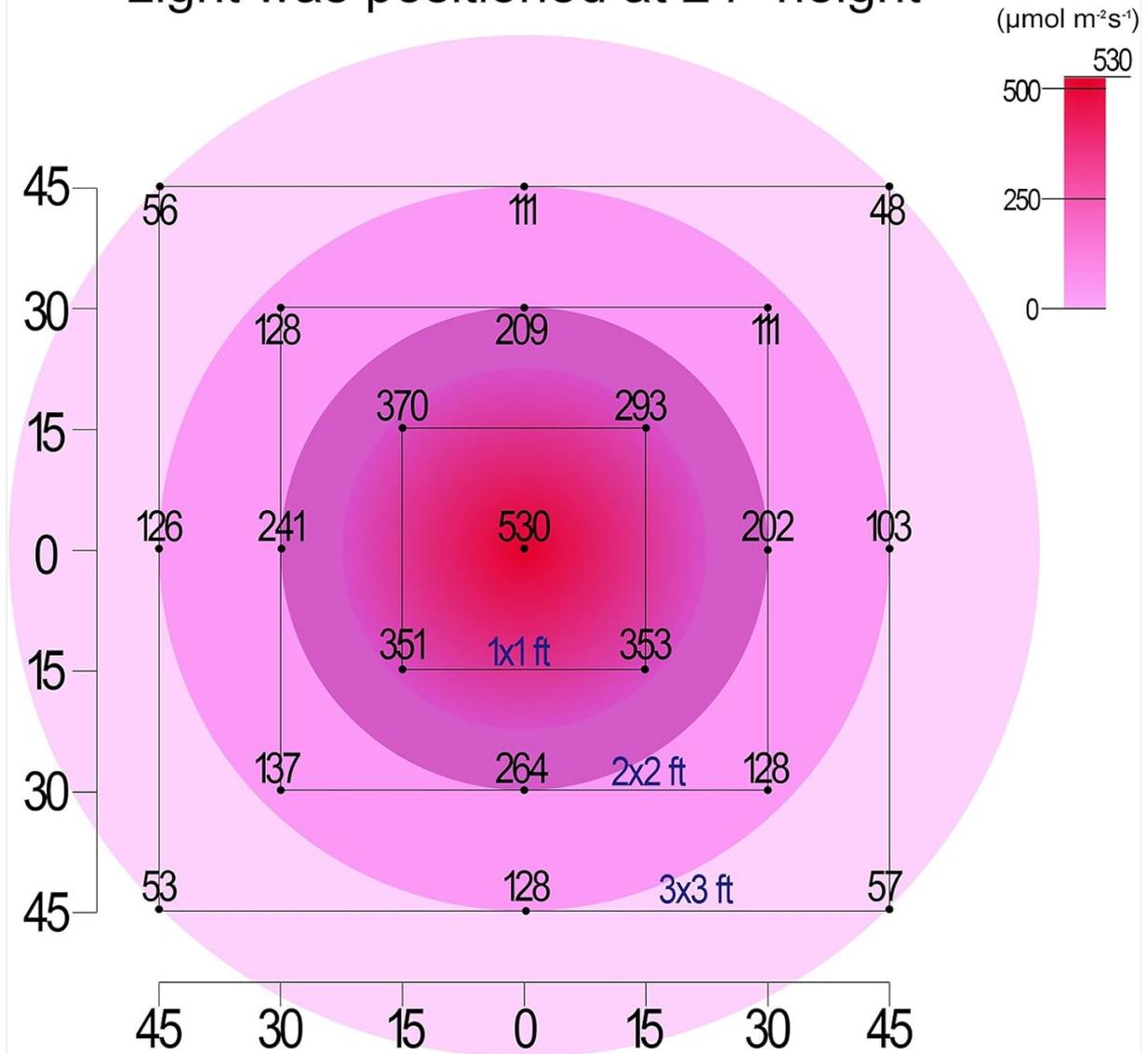


Image 8: A PAR value map for the VIPARSPECTRA V600 positioned at a 24-inch height, showing PAR distribution across a 3x3 ft area, with peak intensity of 530 $\mu\text{mol m}^{-2}\text{s}^{-1}$ at the center.

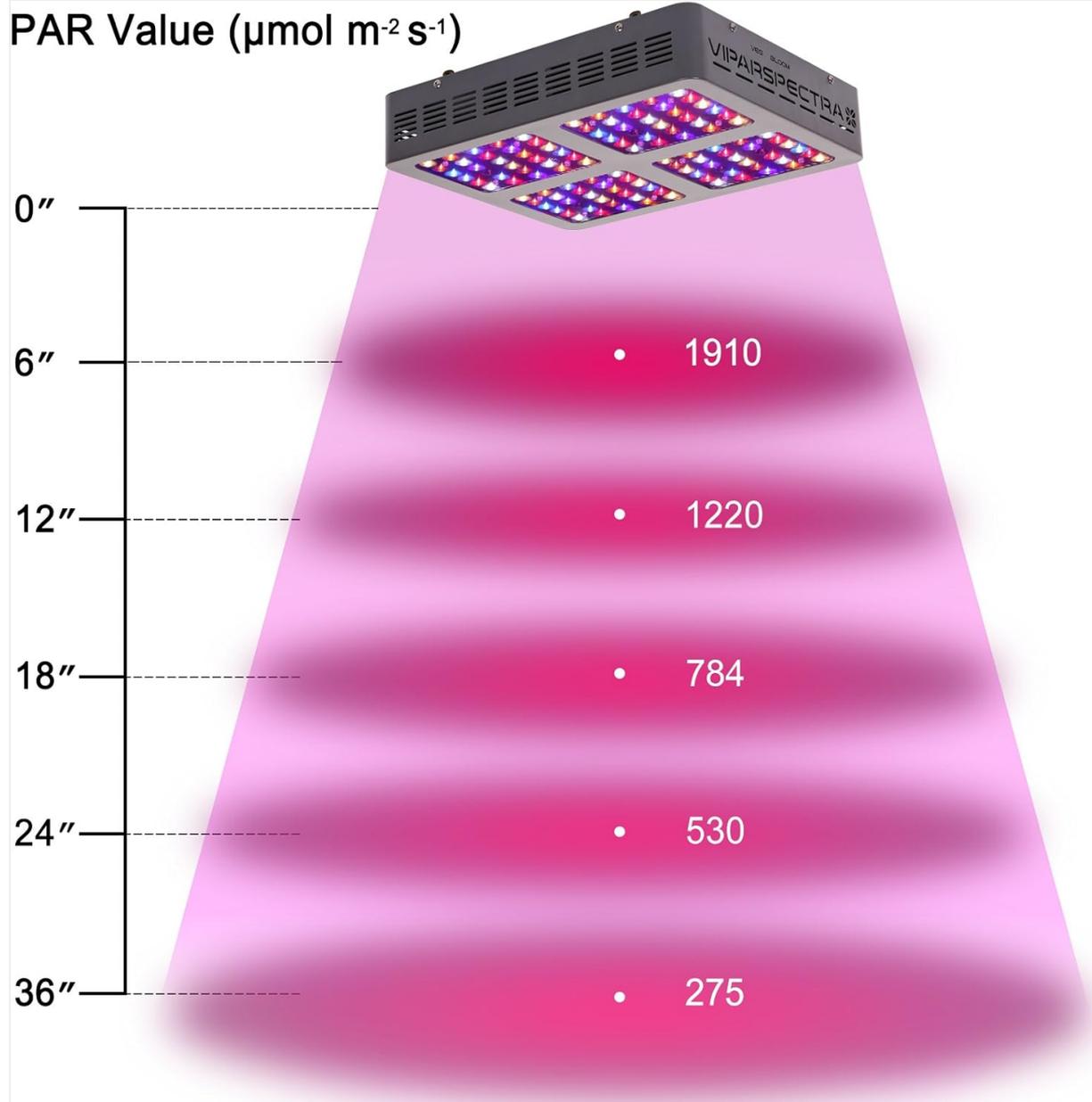


Image 9: A chart illustrating the PAR values ($\mu\text{mol m}^{-2} \text{s}^{-1}$) of the VIPARSPECTRA V600 at different hanging heights: 1910 at 6", 1220 at 12", 784 at 18", 530 at 24", and 275 at 36".

8. MAINTENANCE

- **Cleaning:** Periodically clean the light fixture and reflectors with a soft, dry cloth to ensure maximum light output. Do not use harsh chemicals or abrasive materials.
- **Fan Check:** Ensure the cooling fans are free from dust and debris to maintain optimal airflow and prevent overheating. Clean gently with compressed air if necessary.
- **Cable Inspection:** Regularly check the power cord and hanging cables for any signs of wear or damage. Replace immediately if any damage is found.

9. TROUBLESHOOTING

- **Light Not Turning On:** Check if the power cord is securely plugged into both the light fixture and the electrical outlet. Ensure both the VEG and BLOOM switches are in the 'ON' position. Verify the power outlet is functional.
- **Some LEDs Appear Dim or Off:** The V600 light includes IR (Infrared) LEDs. These LEDs are designed to appear dim or off to the naked eye but are fully functional and essential for the plant's spectrum. This is normal operation and not a defect.
- **Overheating:** Ensure the light is installed in an area with adequate ventilation. Check that the cooling fans are

operating and not obstructed by dust or debris.

10. TECHNICAL SPECIFICATIONS

Specification	Value
Model Number	V600
Brand	VIPARSPECTRA
Actual Power Draw	260 watts
Product Dimensions	1"D x 12.8"W x 15.3"H
Item Weight	11.43 pounds
Material	Aluminum
Light Source Type	LED
Voltage	120 Volts
Indoor/Outdoor Usage	Indoor
Mounting Type	Hanging
Included Components	1 x V600 Led Grow Light, 1 x Power Cord, 1 x Hanging Kit, 1 x User Instructions

11. WARRANTY AND SUPPORT

For warranty information, technical support, or any inquiries regarding your VIPARSPECTRA V600 LED Grow Light, please contact VIPARSPECTRA customer service through their official website or the retailer where the product was purchased. Please retain your proof of purchase for warranty claims.