

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Spider Farmer](#) /
- › [Spider Farmer G4500 LED Grow Light Instruction Manual](#)

Spider Farmer Spider Farmer G4500

Spider Farmer G4500 LED Grow Light Instruction Manual

Comprehensive guide for setup, operation, and maintenance of your G4500 LED Grow Light.

PRODUCT OVERVIEW

The Spider Farmer G4500 LED Grow Light is a cost-effective, high-efficiency lighting solution designed for indoor plant cultivation. It features a unique elongated bar-style design for uniform canopy coverage, full spectrum lighting, and advanced app remote control capabilities for precise environmental management.



The Spider Farmer G4500 LED Grow Light, a bar-style fixture designed for efficient indoor plant cultivation.

KEY FEATURES

- **Maximum Efficiency and Uniform Light:** The G4500 features a unique elongated light bar design for comprehensive canopy coverage, especially at the edges. With high-efficiency Bridgelux diodes, it

achieves 320 watts of power with an impressive PPE of 2.85 $\mu\text{mol}/\text{J}$, covering 3x5 feet or 2x4 feet for full-cycle growth.

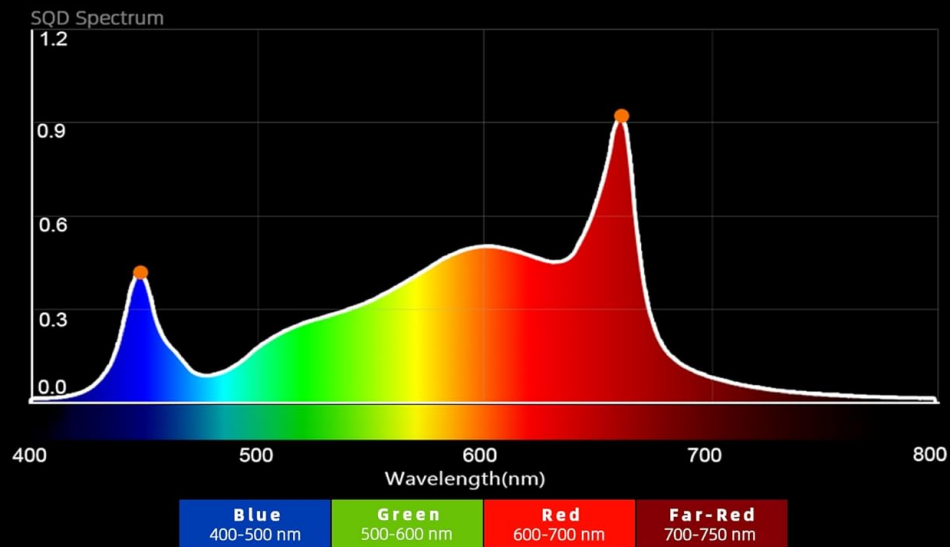


Illustration of the ultra-dense Bridgelux diodes contributing to the light's supreme cost-effectiveness and high PPE/PPF.

- **Advanced Full Spectrum:** The Spider Farmer G4500 light provides a full spectrum (3200-4200K, 4800-5000K, 650-665nm) with different wavelengths, ideal for every stage of plant growth, from seed to harvest.

FULL SPECTRUM

From seed to harvest: a perfect balance of pure (4800-5000K) and warm (2800-3000K) white light.



Blue (400-500nm)

Promotes Leaf Growth, Inhibits Excessive Stretching, Keeps Plants Compact

Green (500-600nm)

Penetrates Canopy, Enhances Overall Photosynthesis Efficiency

Red (600-700nm)

Increases Yield, More Flowers, Bigger Fruits

Far-Red (700-800nm)

Taller, Stronger Plants

A spectral graph illustrating the full spectrum output of the G4500, balanced for all plant growth stages.

- **Dimming Daisy-Chain:** A dimming knob allows brightness adjustment from 10-100%. The daisy-chain function supports connecting up to 50 G4500 lights for simultaneous dimming, recommended for grow rooms, 2x4 grow tents, closets, DWC, and hydroponics.



UP TO **50** LIGHTS DAISY CHAIN DIMMING

Multiple Spider Farmer grow lights connected via daisy chain for synchronized dimming, ideal for larger grow operations.

- **Grow Smart with the Spider Farmer App:** Take full control of your grow lights anytime, anywhere with the Spider Farmer App (available on Apple Store & Google Play). Unlock features like custom light schedules, sunrise and sunset simulation, and remote brightness adjustments. Manage your G4500 even while away.



A smartphone screen displaying the Spider Farmer app interface for remote control of the grow light.

This video demonstrates how to use the Spider Farmer app to control G and SE series grow lights, including manual brightness adjustment, time slot scheduling, and PPF mode.

SETUP INSTRUCTIONS

Unpacking

Carefully remove all components from the packaging. Inspect for any damage during transit. Keep all packaging materials until you have confirmed the light is fully functional.



Top view of the product packaging box.



Side view of the product packaging box.



End view of the product packaging box.



Product packaging box indicating the G4500 model.

Mounting the Light

The G4500 LED Grow Light is designed for easy installation in grow tents, particularly 2x4 ft setups. Use the provided hanging kits to suspend the light securely from the tent frame or ceiling. Ensure the light is level and at the appropriate height above your plants for optimal light distribution.

DIGITAL PRECISION DIMMING



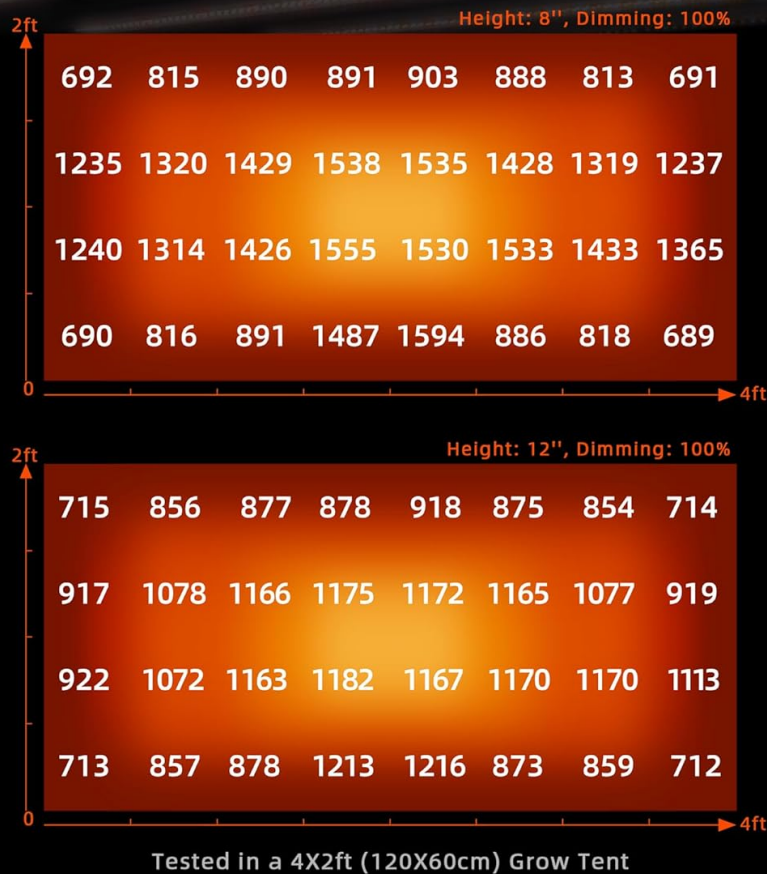
The G4500 LED grow light is designed for easy installation within a 2x4 ft grow tent, supporting 4-6 plants.

Connecting the Controller

Connect the power cord to the light's integrated controller, then plug it into a suitable power outlet. The digital controller allows for precise dimming and can be connected to other compatible Spider Farmer lights for daisy-chain functionality.

G4500 PPFD MAP

Delivers Even Light Distribution and Deep Canopy Penetration



The integrated digital controller allows for precise dimming from 0% to 100%.

OPERATING INSTRUCTIONS

Manual Brightness Adjustment

Use the dimming knob on the controller to manually adjust the light intensity from 10% to 100%. This allows for fine-tuning the light output to suit the specific needs of your plants at different growth stages.

App Remote Control

Download the Spider Farmer App from the Apple App Store or Google Play. Follow the in-app instructions to pair your G4500 light. The app provides advanced control options including:

- Custom light schedules (Time Slot Mode)
- Sunrise and sunset simulation for natural light patterns
- Remote brightness adjustments
- High Temperature Protection feature to automatically dim or turn off the light if temperatures exceed set limits.

Daisy-Chain Functionality

For larger grow operations, connect multiple G4500 lights using the daisy-chain feature. This allows a

single controller to manage the dimming of up to 50 lights simultaneously, simplifying control and ensuring consistent lighting across your entire grow area.

Recommended Growing Tips

The following table provides general guidelines for light intensity and distance during different plant growth stages. Adjustments may be necessary based on specific plant types and environmental conditions.

Stage	Time (ON)	Distance	Dimming
Seedling	18H	12" (30cm)	20% - 25%
Vegetative	18H	12" (30cm)	45% - 50%
Flowering	12H	12" (30cm)	85% - 100%

MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your Spider Farmer G4500 LED Grow Light. Keep the light bars and heatsinks clean from dust and debris to maintain efficient heat dissipation.

Heat Dissipation

The G4500 is equipped with heavy aluminum heatsinks and a bar-style design that enhances heat dissipation and improves airflow. This design helps keep the light running cooler, contributing to its long lifespan and stable performance. Avoid obstructing the heatsinks to ensure proper ventilation.



The bar-style design with heavy aluminum heatsinks enhances heat dissipation, keeping the light cooler during operation.

TROUBLESHOOTING

- **Light Not Turning On:**

- Check if the power cord is securely plugged into both the light and the power outlet.
- Ensure the power outlet is functional.
- Verify the dimming knob is not set to 0% or 'Off' in manual mode.

- **App Connectivity Issues:**

- Ensure your smartphone's Bluetooth is enabled and the light is within range.
- Restart the Spider Farmer App.
- Unplug and replug the light to reset its connection.

- **Overheating/Automatic Dimming:**

- Check the ambient temperature of your grow space.
- Ensure proper ventilation around the light and within the grow tent.
- Verify the High Temperature Protection setting in the app is not set too low.

SPECIFICATIONS

Attribute	Detail
Brand	Spider Farmer
Model Number	Spider Farmer G4500
Power Source	Corded Electric
Voltage	120 Volts (AC)
Light Source Type	LED
Light Source Wattage	320 Watts (Actual Draw)
Product Dimensions	45.38"L x 14.51"W x 3.03"H
Item Weight	12.62 pounds
Material	Aluminum
Finish Type	Aluminum
Color	Silver
Mounting Type	Ceiling Mount
Coverage Area	2x4 ft or 3x5 ft

WARRANTY AND SUPPORT

The Spider Farmer G series LED grow light comes with an impressive **5-year coverage**, ensuring long-lasting performance and reliability. For any inquiries or support needs, you can count on quick and efficient assistance from our **U.S.-based service center**.

For more information and to explore other Spider Farmer products, please visit the [Official Spider Farmer Store](#).