Spider Farmer Spider Farmer SE1500

Spider Farmer SE1500 LED Grow Light User Manual

Model: **SE1500** | Brand: **Spider Farmer**

1. Introduction

The Spider Farmer SE1500 LED Grow Light is designed for efficient and effective indoor plant cultivation. Featuring advanced Samsung LM301H EVO diodes and full-spectrum lighting, this 150W grow light provides optimal conditions for all stages of plant growth, from seedling to flowering. Its dimmable functionality and remote app control offer precise management of your grow environment.



Image: The Spider Farmer SE1500 LED Grow Light, showcasing its bar-style design and integrated control unit.

2. Key Features

- **Maximum Efficiency with Samsung LM301H EVO Diodes:** Achieves 3.14 µmol/J efficacy, consuming 150 watts to produce 428 µmol/s. Designed for uniform and full canopy coverage in 2x2ft areas.

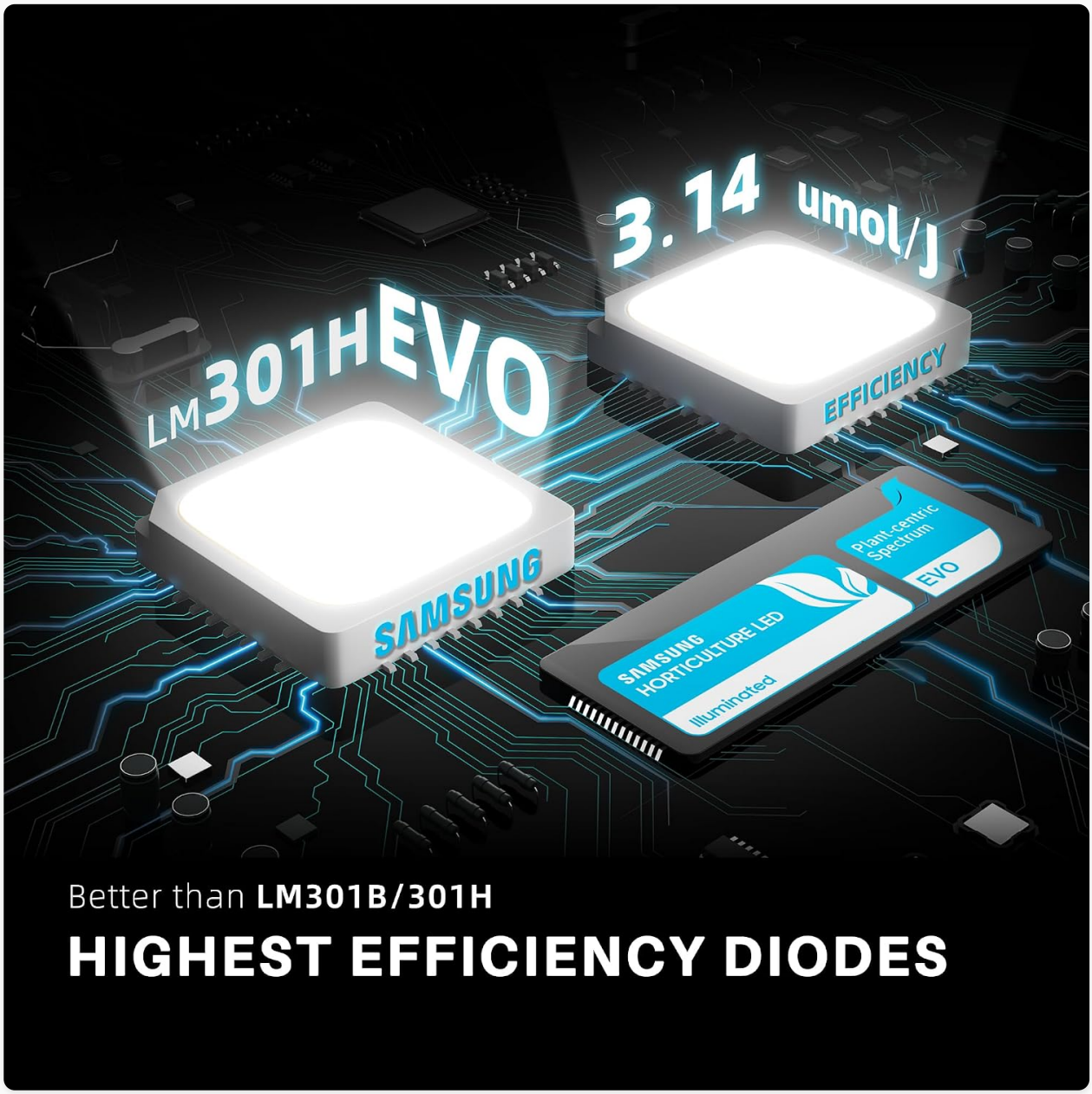


Image: Close-up of Samsung LM301H EVO diodes, highlighting their high efficiency for horticultural applications.

- **Dimmable with Digital Display:** Features precise dimming technology with a clear digital display for brightness level adjustments. Supports daisy-chaining up to 50 SE1500 grow lights for commercial setups.
- **Full Spectrum Lighting:** Includes 2800-3000K, 4800-5000K, and 660-665nm wavelengths, providing the ideal light blend for all plant growth stages.

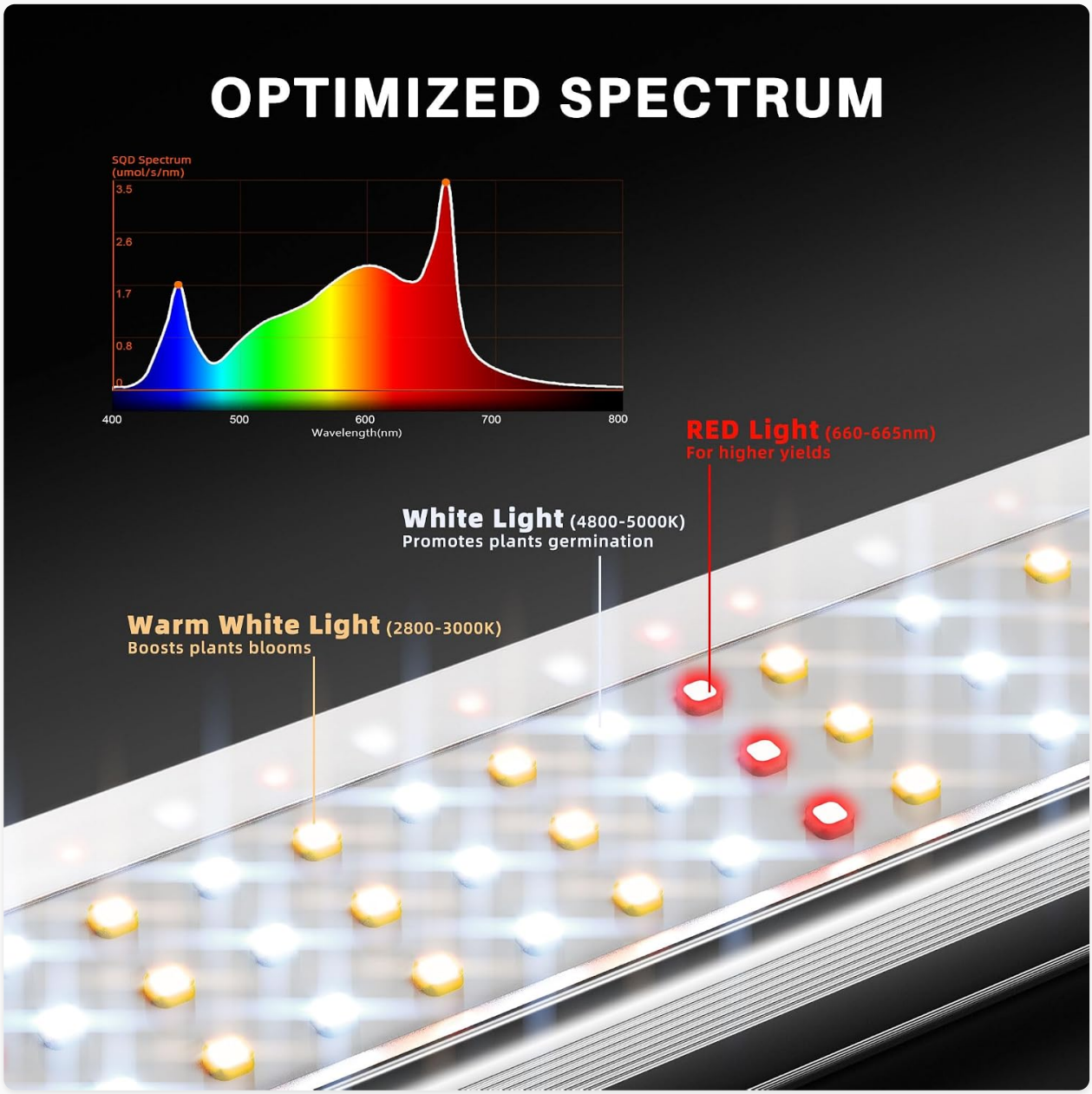


Image: Diagram illustrating the optimized light spectrum of the SE1500, showing warm white, white, and red light components.

- **Smart Control with Spider Farmer App:** Remote control via the Spider Farmer App (available on Apple Store & Google Play) for custom light schedules, sunrise/sunset simulation, and brightness adjustments.

3. Setup Instructions

Follow these steps to set up your Spider Farmer SE1500 LED Grow Light:

1. **Unpack Components:** Carefully remove all components from the packaging. Verify that all parts listed in the packing list are present.
2. **Assemble Light Fixture:** Attach the LED bars to the main frame according to the provided diagrams. Ensure all connections are secure.
3. **Mounting:** Use the included hanging kits to suspend the grow light securely from a sturdy support structure within your grow tent or area. Ensure the light is level.



Image: The SE1500 grow light installed inside a grow tent, illuminating plants.

4. **Connect Power:** Connect the power cord to the control unit, then plug it into a suitable power outlet. Ensure the power source matches the light's voltage requirements (120 Volts AC).
5. **Initial Power On:** Turn on the light using the control unit. The digital display will show the current brightness level.

4. Operating Instructions

The SE1500 offers both manual and app-controlled operation:

4.1 Manual Dimming

Use the dimming knob on the control unit to adjust the light intensity from 0% to 100%. The digital display will show the current percentage.



Image: Close-up of the control unit with a digital display showing "80%" brightness, indicating precise dimming control.

4.2 App Remote Control

1. **Download App:** Download the "Spider Farmer" app from the Apple App Store or Google Play Store.
2. **Pair Device:** Follow the in-app instructions to pair your SE1500 grow light with your smartphone.
3. **Control Features:**
    - Set custom light schedules.
    - Simulate sunrise and sunset effects.
    - Adjust brightness remotely.
    - Monitor light status.



Image: A smartphone screen displaying the Spider Farmer app interface, showing brightness adjustment and control options.

4.3 Daisy Chain Functionality

For larger setups, you can daisy chain up to 50 SE1500 grow lights. Connect the lights in series, and control them all from a single master light or via the app.

5. Growing Tips

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



Image: PPFD (Photosynthetic Photon Flux Density) map for the SE1500, showing uniform coverage and light penetration at different heights and dimming levels for a 2x2ft grow tent.

Stage	Time (ON)	Distance (from canopy)	Dimming
Seedling	18H	10" (25cm)	20% - 30%
Vegetative	18H	10" (25cm)	50% - 60%
Flowering	12H	10" (25cm)	90% - 100%

The information above is for reference only and should be adjusted according to the specific needs of the plants.

6. Maintenance

Proper maintenance ensures the longevity and optimal performance of your grow light:

- **Cleaning:** Regularly wipe down the LED bars and housing with a soft, dry cloth to remove dust and debris. Do

not use harsh chemicals or abrasive materials. Ensure the light is unplugged before cleaning.

- **Ventilation:** Ensure adequate airflow around the light fixture to prevent heat buildup. While the SE1500 generates minimal heat, good ventilation is crucial for both the light and your plants.
- **Cable Inspection:** Periodically check power cords and connections for any signs of wear, damage, or loose fittings. Replace any damaged components immediately.
- **Environmental Conditions:** Operate the light within recommended temperature and humidity ranges to maximize its lifespan.

7. Troubleshooting

If you encounter issues with your Spider Farmer SE1500, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Light does not turn on	No power supply; Loose connection; Faulty outlet	Check power cord connection; Try a different outlet; Ensure power switch is ON.
Light flickers or dims unexpectedly	Unstable power; Loose wiring; Overheating	Ensure stable power supply; Check all cable connections; Ensure adequate ventilation.
App control not working	Bluetooth/Wi-Fi issue; App not paired; Outdated app version	Ensure Bluetooth/Wi-Fi is enabled; Re-pair device in app; Update app to latest version.
Light is too hot	Poor ventilation; Ambient temperature too high	Improve airflow in grow area; Reduce ambient room temperature.

If the problem persists after trying these solutions, please contact Spider Farmer customer support.

8. Specifications

Attribute	Detail
Model	Spider Farmer SE1500
Power Consumption	150 Watts
Light Source Type	LED (Samsung LM301H EVO Diodes)
Efficacy	3.14 µmol/J
PPF	428 µmol/s
Coverage Area	2x2ft (high-yielding full-cycle growth)
Spectrum	Full Spectrum (2800-3000K, 4800-5000K, 660-665nm)
Dimming	Dimmable (0-100%) with Digital Display and App Control
Voltage	120 Volts (AC)

Attribute	Detail
Material	Aluminum
Dimensions	16.09"L x 16.05"W x 2.65"H
Item Weight	5.34 Pounds
Certification	ETL



Image: Visual representation of the SE1500's PPE (2.85 µmol/J) and PPF (428 µmol/s) values, along with its 2'x2' coverage area.

9. Warranty and Support

Spider Farmer provides a **5-year coverage** for the SE series grow lights. Any problems within this period can be repaired at your local repair center (USA/Canada/UK/Germany).
For product issues or support, please feel free to contact Spider Farmer customer service. Refer to the product packaging or the official Spider Farmer website for contact details.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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