Spider Farmer SF2000

Spider Farmer SF2000 LED Grow Light Instruction Manual

Model: SF2000

1. Introduction

This manual provides detailed instructions for the safe and efficient use of your Spider Farmer SF2000 LED Grow Light. Please read this manual thoroughly before installation and operation to ensure optimal performance and longevity of your product.

2. Safety Information

- Always disconnect power before installation, cleaning, or maintenance.
- This product is designed for indoor use only. Do not expose to water or high humidity.
- Ensure proper ventilation around the light fixture to prevent overheating.
- Do not look directly at the operating LEDs. Wear protective eyewear if prolonged exposure is necessary.
- Keep out of reach of children and pets.
- Use only with the provided power supply and components.

3. Package Contents

Verify that all components are present in your package:

- Spider Farmer SF2000 LED Grow Light Fixture
- Power Cord
- Hanging Kit (Rope hangers, carabiners, wire hangers)
- Dimmer Control Unit



Image 3.1: Spider Farmer SF2000 LED Grow Light and included accessories.

4. Setup Instructions

1. **Unpack Components:** Carefully remove all items from the packaging.
2. **Assemble Hanging Kit:** Attach the rope hangers and carabiners to the designated points on the light fixture.
3. **Mount the Light:** Hang the light fixture securely from a sturdy support structure in your grow area. Ensure it is level and at the desired height above your plants.
4. **Connect Dimmer:** Plug the dimmer control unit into the light fixture.
5. **Connect Power:** Plug the power cord into the dimmer control unit, then into a grounded electrical outlet.

5. Operating Instructions

5.1 Dimmer Control

The SF2000 features a dimmer knob and button for adjusting light intensity. The dimmer knob allows for 0-100% intensity adjustment. The dimmer button can be used to toggle dimming on/off or to switch to external control.

- **Dimmer Knob:** Rotate to adjust light intensity from 0% (off) to 100% (full power).
- **Dimmer Button (DIM):** Press to enable or disable internal dimming.
- **Dimmer Button (EXT):** Press to switch to external control mode, allowing compatibility with GGS controllers for advanced timer and dimming settings.



Image 5.1: Dimmer control unit for the SF2000.

5.2 Full Spectrum Output

The SF2000 utilizes Samsung LM301H EVO LEDs to provide an optimized full spectrum of light, including 3000K, 5000K, 660nm (red), and 760nm (IR). This spectrum supports all growth stages from germination to bloom.

- **5000K:** Promotes germination and vegetative growth.
- **3000K:** Boosts flowering and fruiting.
- **660nm (Red):** Accelerates growth and enhances bloom.
- **760nm (IR):** Increases yields and plant vigor. Note that IR light appears dim to the human eye.

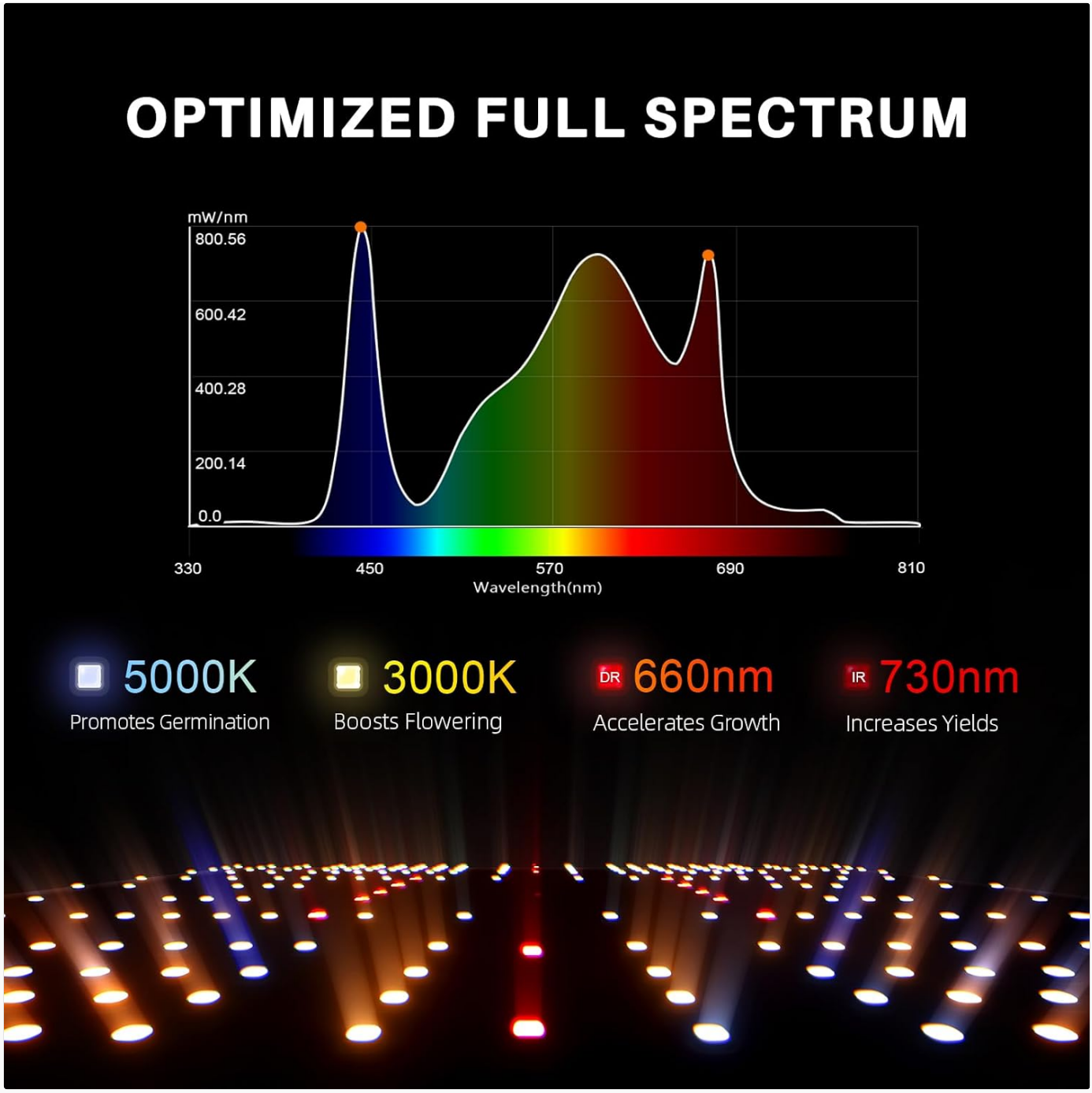


Image 5.2: Optimized full spectrum output.

5.3 GGS Controller Compatibility

The SF2000 is compatible with GGS controllers for advanced control over your grow environment. This allows for precise timer settings and 0-100% dimming, beneficial for large indoor growing areas and commercial planting.



Image 5.3: SF2000 connected to a GGS controller.

6. Growing Tips

Adjust light distance, dimming, and light cycle according to the plant's growth stage for optimal results.

Stage	Distance (in)	Dimming	Time
Germination	24"-30"	50%	18 hr ON / 6 hr OFF
Seedling	24"	50-75%	18 hr ON / 6 hr OFF
Vegetative	18"-24"	75-100%	18 hr ON / 6 hr OFF
Flowering	12"-18"	100%	12 hr ON / 12 hr OFF

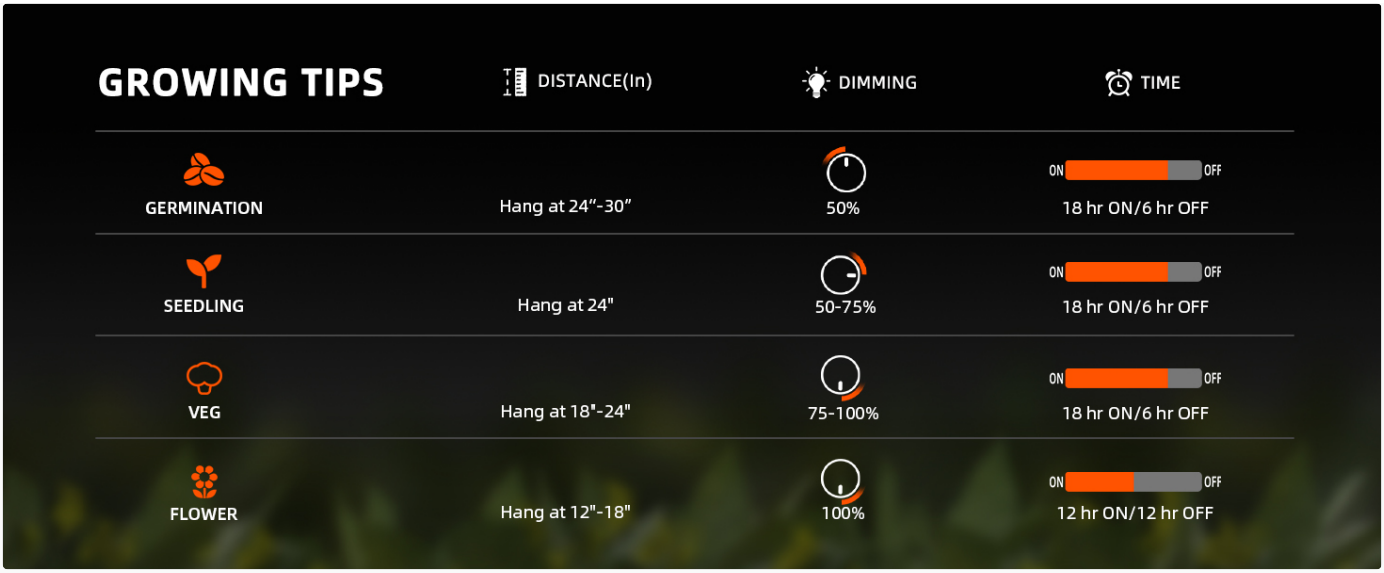


Image 6.1: Recommended growing parameters.

6.2 PPFD Map

The SF2000 provides uniform light distribution. Refer to the PPFD map for expected light intensity at various heights within a 2x4 ft grow tent.

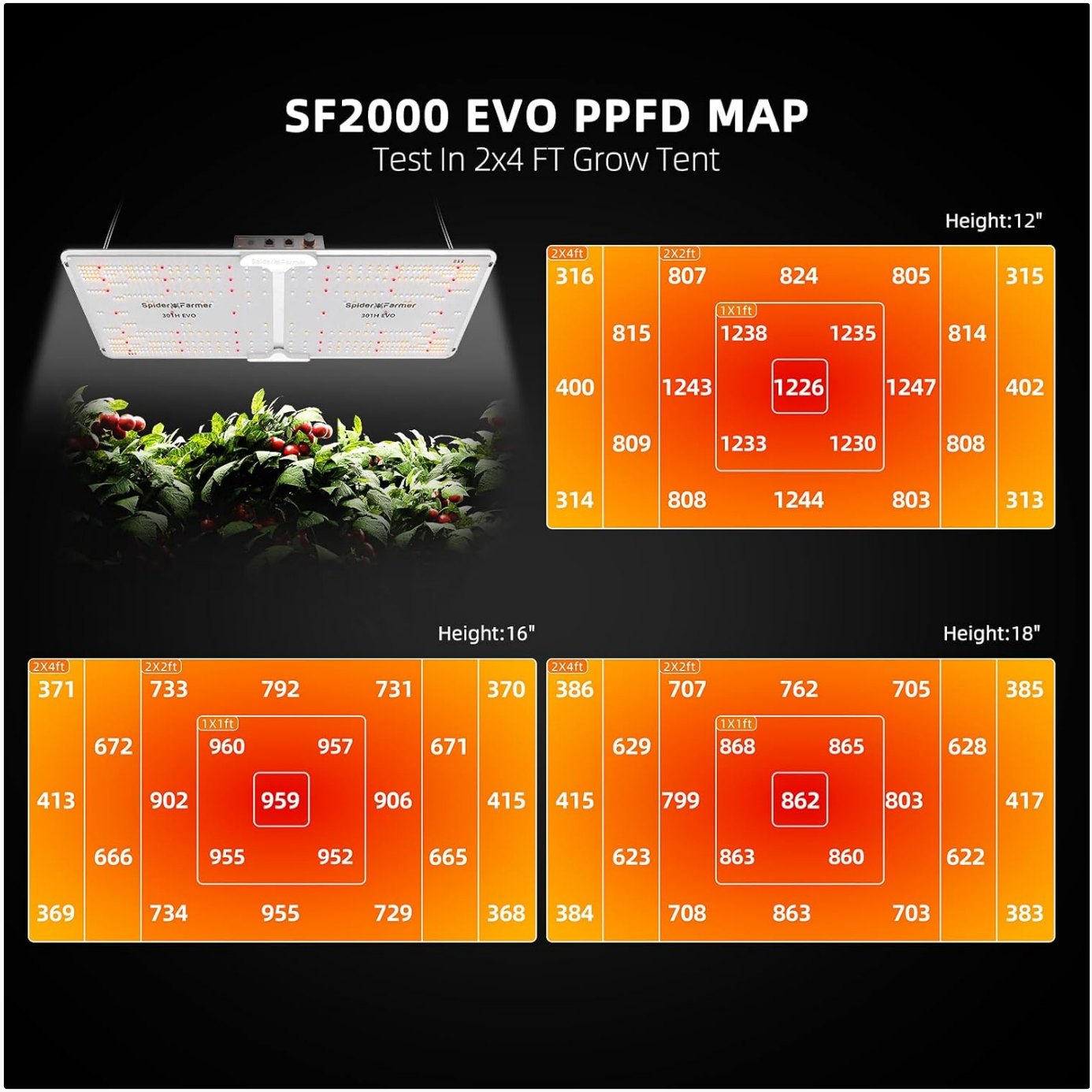


Image 6.2: SF2000 EVO PPFD Map.

7. Maintenance

- **Cleaning:** Periodically wipe the light fixture with a dry, soft cloth to remove dust and debris. Ensure the light is unplugged before cleaning.
- **Heat Dissipation:** The SF2000 is designed for efficient heat dissipation with its aluminum heat sink and fanless design. Ensure adequate airflow around the fixture to maintain optimal operating temperatures.



Image 7.1: Heat dissipation design.

8. Troubleshooting

- **Light Not Turning On:**
  - Check if the power cord is securely plugged into both the light and the electrical outlet.
  - Verify that the dimmer knob is not set to 0% (off).
  - Ensure the dimmer button is set to internal dimming (DIM) if not using an external controller.
- **Light Flickering:**
  - Check all connections for looseness.
  - Ensure the power supply is stable.
- **Overheating:**
  - Ensure adequate ventilation around the light fixture.

- Verify that no objects are obstructing the heat sink.

9. Specifications

Feature	Detail
Model Name	SF2000
Brand	Spider Farmer
Wattage	200 watts
Light Source Type	LED (Samsung LM301H EVO)
Spectrum	Full Spectrum (3000K, 5000K, 660nm, 760nm IR)
Dimmable	Yes (0-100%)
Efficiency	3.14 µmol/J PPE per diode
Product Dimensions	25.5"L x 10.5"W x 2.3"H
Item Weight	6.6 Pounds
Material	Aluminum
Indoor/Outdoor Usage	Indoor use only
Control Method	App (via GGS controller), Manual Knob
Voltage	240 Volts
UPC	686494419322

10. Warranty Information

Spider Farmer provides a **5-year warranty** for this LED grow light. This warranty covers defects in materials and workmanship under normal use. For warranty claims or service, please contact Spider Farmer customer support. Ensure you purchase authentic Spider Farmer grow lights to qualify for warranty service.

11. Support

For any questions, technical assistance, or support needs regarding your Spider Farmer SF2000 LED Grow Light, please contact Spider Farmer customer service. You can find contact information on the official Spider Farmer website or through your retailer.
Visit the official Spider Farmer Store for more information and products.

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