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Spider Farmer 5L Humidifier, SF2000Pro Grow Light

Spider Farmer 5L Humidifier and SF2000Pro Grow Light User Manual

Comprehensive instructions for setup, operation, and maintenance.

1. INTRODUCTION

Thank you for choosing the Spider Farmer 5L Humidifier and SF2000Pro Grow Light. This manual provides detailed instructions for the safe and efficient use of your new equipment. Please read this manual thoroughly before installation and operation, and retain it for future reference.

This product combines a high-capacity humidifier with a powerful LED grow light, designed to create an optimal environment for plant growth in various settings such as greenhouses, grow tents, and indoor gardens.

2. SAFETY INFORMATION

Always observe the following safety precautions to reduce the risk of fire, electric shock, injury, or damage to the product.

- Read all instructions before using the appliance.
- Do not operate any appliance with a damaged cord or plug.
- Do not place the humidifier near heat sources or in direct sunlight.
- Ensure the grow light is securely mounted and away from water sources.
- Disconnect power before cleaning or performing maintenance.
- Keep electrical components dry.
- Do not attempt to repair or modify the unit yourself. Contact qualified service personnel.
- Keep out of reach of children and pets.

3. PACKAGE CONTENTS

Verify that all components are present and in good condition upon unpacking.



Image: Spider Farmer 5L Humidifier unit, Y-shaped vapor outlet, extendable hoses, and remote sensor.

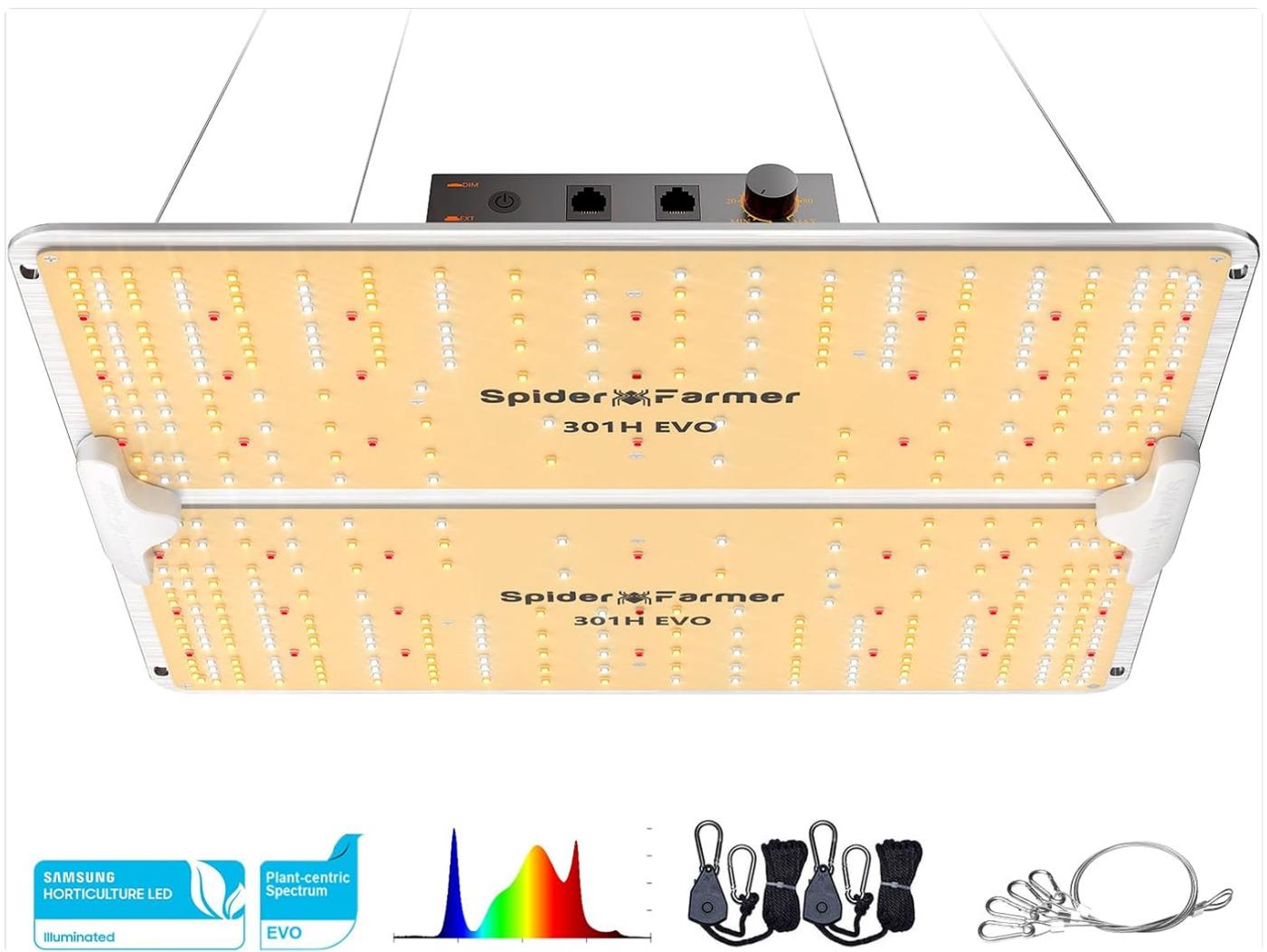


Image: Spider Farmer SF2000Pro Grow Light with hanging kit.

- Spider Farmer 5L Humidifier Unit
- SF2000Pro Grow Light
- Y-shaped Vapor Outlet
- Extendable Hoses (2x)
- Temperature & Humidity Sensor
- Power Cords (for both units)
- Grow Light Hanging Kit (ratchet hangers, rope hangers, carabiners)
- Dimmer Knob/Controller for Grow Light

4. PRODUCT OVERVIEW

4.1. 5L Humidifier



Image: Detailed view of the 5L Humidifier, showing the water tank, control panel, and mist outlet.

- **Water Tank:** 5-liter capacity for extended operation.
- **Control Panel:** Digital display with touch controls for humidity, mist level, and timer.
- **Mist Outlet:** Top-mounted outlet for vapor dispersion, compatible with Y-shaped adapter and hoses.
- **Temperature & Humidity Sensor:** External sensor for accurate environmental monitoring and automatic control.

4.2. SF2000Pro Grow Light

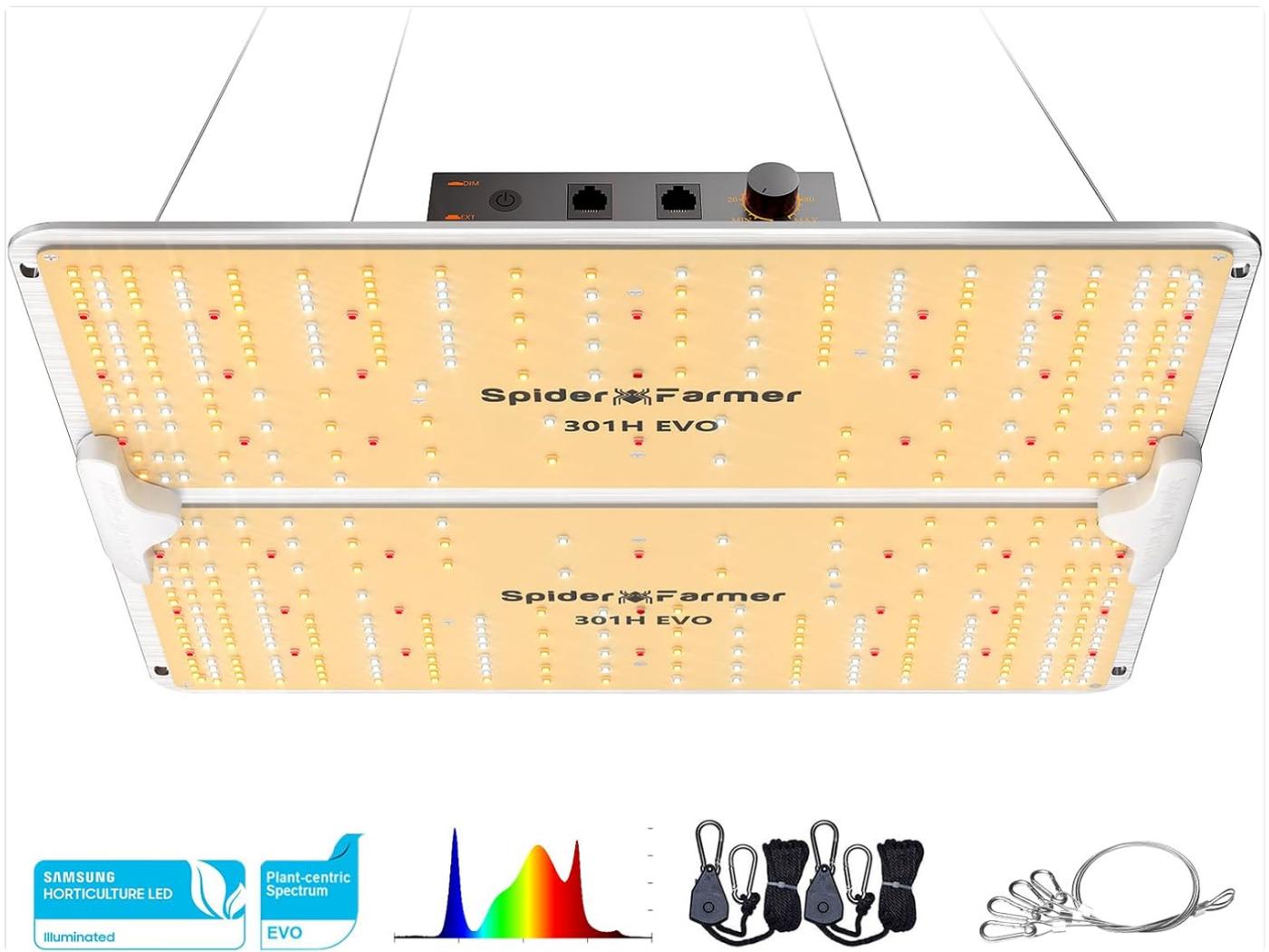


Image: Top-down view of the SF2000Pro Grow Light, highlighting the LED board and integrated components.

- **LED Board:** Equipped with Samsung LM301H EVO LEDs for high efficiency and full spectrum light.
- **Dimmer Knob/Controller:** External control for adjusting light intensity from 0-100%.
- **Daisy Chain Ports:** For connecting multiple grow lights (if applicable).
- **Passive Cooling:** Fanless design for silent operation.

5. SETUP INSTRUCTIONS

5.1. Humidifier Setup

1. **Placement:** Place the humidifier on a flat, stable surface. It can be placed inside or outside your grow tent.
2. **Fill Water Tank:** Remove the top cover and fill the water tank with clean, distilled water. Do not exceed the MAX fill line. Replace the cover securely.
3. **Attach Hoses:** Connect the Y-shaped vapor outlet to the humidifier's mist port. Attach the extendable hoses to the Y-adaptor and direct them as needed within your grow environment.
4. **Position Sensor:** Place the temperature and humidity sensor in the desired monitoring area within your grow space. Ensure it is not directly in the mist path.

Precise VPD Sensing

Providing data support to the control center for stable and automatic operation.



Image: Proper placement of the temperature and humidity sensor for accurate readings.

5. **Power Connection:** Plug the humidifier's power cord into a suitable electrical outlet.

5.2. Grow Light Setup

1. **Mounting:** Use the provided hanging kit to suspend the SF2000Pro Grow Light securely from the ceiling of your grow tent or structure. Ensure it is level and at the appropriate height above your plants.
2. **Connect Dimmer:** Connect the dimmer knob/controller to the designated port on the grow light.
3. **Power Connection:** Plug the grow light's power cord into a suitable electrical outlet.

6. OPERATING INSTRUCTIONS

6.1. Humidifier Operation

LED DIGITAL CONTROL



TIMER:
Set Timer from 1 to 24 Hours

ON/OFF:
Power Button

HUMIDITY:
Adjustable Humidity
Range: 35% to 95%
Relative Humidity
(RH)

MIST:
Four Adjustable Mist
Levels

**Low Water
Icon:**
Flashes for 15s with
3 Beeps, Then Shuts
Down Automatically

Image: Close-up of the humidifier's LED digital control panel, showing buttons for power, timer, humidity, and mist level.

- **Power On/Off:** Press the **Power Button** to turn the humidifier on or off.
- **Set Humidity:** Press the **Humidity Button** to adjust the desired relative humidity (RH) from 35% to 95% in 5% increments. The humidifier will automatically turn on/off to maintain this level.
- **Adjust Mist Level:** Press the **Mist Button** to cycle through 4 adjustable mist levels.
- **Set Timer:** Press the **Timer Button** to set an operating timer from 1 to 24 hours.
- **Low Water Indicator:** The **Low Water Icon** will flash for 15 seconds with 3 beeps, then the unit will automatically shut down when water is low. Refill the tank to resume operation.

6.2. Grow Light Operation

CUSTOM LIGHT INTENSITY



Image: Close-up of the grow light's dimmer knob and control buttons.

- **Power On/Off:** Use the power button on the dimmer controller to turn the light on or off.
- **Adjust Intensity:** Rotate the **Dimmer Knob** to adjust the light intensity from 0% (off) to 100% (maximum).
- **Daisy Chain Control:** If multiple lights are connected via daisy chain, the dimmer on the first light will control all connected units.

6.3. App & Remote Control

SMART REMOTE CONTROL

- Connect to the GGS Series. WiFi Smart Connectivity with App Remote Control.
- Easily check data, switch modes, adjust mist levels, and set timers—anytime, anywhere



Image: Smartphone screen displaying the humidifier control interface within a grow tent setup.

The humidifier is compatible with the GGS Controller or AC5/AC10 Power Strip for remote control via a mobile application. Follow the instructions provided with your GGS Controller or AC5/AC10 Power Strip to connect the humidifier. Once connected, you can:

- Adjust humidity levels remotely.
- Check current humidity and temperature readings.
- Switch operating modes.
- Set timers for operation.

7. MAINTENANCE

Regular maintenance ensures optimal performance and extends the lifespan of your equipment.

7.1. Humidifier Cleaning

1. **Disconnect Power:** Always unplug the humidifier before cleaning.
2. **Empty Water Tank:** Drain any remaining water from the tank and base.
3. **Clean Tank:** Wipe the inside of the water tank with a soft cloth. For mineral buildup, use a solution of white vinegar and water (1:1 ratio), let it soak for 30 minutes, then rinse thoroughly.
4. **Clean Mist Outlet/Hoses:** Ensure mist outlets and hoses are free from blockages. Clean with a soft brush if necessary.
5. **Dry Components:** Allow all parts to air dry completely before reassembling and using.

7.2. Grow Light Care

- **Dust Removal:** Periodically wipe the LED board and housing with a soft, dry cloth to remove dust and debris. Ensure the light is off and cool before cleaning.
- **Avoid Liquids:** Do not spray water or cleaning solutions directly onto the grow light.
- **Inspect Cables:** Regularly check power cords and connections for any signs of damage.

8. TROUBLESHOOTING

Refer to this section for common issues and their solutions.

Problem	Possible Cause	Solution
Humidifier not producing mist.	Low water level. Mist outlet blocked. Unit not powered on.	Refill water tank. Clean mist outlet and hoses. Ensure power cord is connected and unit is turned on.
Humidity level not reaching target.	Room too large. Sensor placement. Low mist setting.	Consider additional humidification or ensure grow space is sealed. Reposition sensor away from direct mist. Increase mist level.
Grow light not turning on.	Power cord disconnected. Dimmer knob set to OFF (0%). Faulty outlet.	Check power connections. Rotate dimmer knob to increase intensity. Test with another outlet.
App/Remote control not working.	Not connected to GGS Controller/Power Strip. Network issues.	Refer to GGS Controller/Power Strip manual for connection instructions. Check Wi-Fi connection and app status.

9. SPECIFICATIONS

9.1. 5L Humidifier

- **Water Tank Capacity:** 5 Liters
- **Humidity Range:** 35% - 95% RH (in 5% increments)
- **Mist Levels:** 4 adjustable levels
- **Noise Level:** ≤35dB
- **Control:** Digital display, App/Remote (via GGS Controller/AC5/AC10)
- **Sensor:** Upgraded temperature & humidity sensor

9.2. SF2000Pro Grow Light



Better than **LM301B/301H**

HIGHEST EFFICIENCY DIODES

Image: Diagram illustrating the high efficiency of Samsung LM301H EVO LEDs.

SF2000PRO EVO PPFD MAP

Test In 3X3 FT Grow Tent



Image: PPFd (Photosynthetic Photon Flux Density) map for the SF2000Pro EVO in a 3x3 ft grow tent at various heights.

- **LED Type:** Samsung LM301H EVO
- **Efficiency:** 3.14 $\mu\text{mol}/\text{J}$ PPE per diode (LED chip level)
- **Spectrum:** Full spectrum with enhanced blue
- **Cooling:** Passive (fanless)
- **Dimming:** 0-100% adjustable intensity via dimmer knob
- **Coverage:** Optimized for specific grow tent sizes (refer to PPFd map for details)

10. WARRANTY AND SUPPORT

Spider Farmer provides a **5-Year Warranty** for the LED Plant Lights. This warranty covers defects in materials and workmanship under normal use.

For any questions, technical support, or warranty claims, please contact Spider Farmer customer service. Local maintenance centers are available in US/CA/UK/EU/AU regions.

Ensure you purchase authentic Spider Farmer products to qualify for warranty and support services.



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