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Spider Farmer Grow Tent Fan 6" &GGS Controller Kits & Sensor Pro Kits

Spider Farmer Grow Tent Fan & GGS Controller Kits User Manual

Model: Grow Tent Fan 6" &GGS Controller Kits & Sensor Pro Kits

1. Introduction

Thank you for choosing the Spider Farmer Grow Tent Fan & GGS Controller Kits. This comprehensive system is designed to provide optimal environmental control for your indoor growing setup. It includes a powerful 6-inch grow tent fan, a smart environmental controller, and a GGS Sensor Pro Kit featuring 4-in-1 VPD/PPFD/Temp/Humid sensing capabilities, along with a dedicated CO2 sensor. This manual will guide you through the installation, operation, and maintenance of your new system to ensure a thriving growing environment.

2. Safety Instructions

Please read all safety instructions carefully before operating the device. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Always disconnect power before cleaning or performing any maintenance.
- Do not immerse the fan, controller, or sensors in water or other liquids.
- Ensure all electrical connections are secure and meet local electrical codes.
- Keep the device away from open flames, heat sources, and flammable materials.
- Do not operate the fan with a damaged cord or plug.
- This product is intended for indoor use only.
- Keep out of reach of children and pets.

3. Package Contents

Verify that all components are present and undamaged upon opening the package:

- Spider Farmer 6-inch Grow Tent Fan
- Spider Farmer GGS Smart Environmental Controller
- Spider Farmer GGS Sensor Pro (4-in-1: VPD/PPFD/Temp/Humid)
- Spider Farmer CO2 Sensor
- Power Adapter for Controller

- Mounting Clip for Fan
- User Manual (this document)



Image: Overview of the Spider Farmer Grow Tent Fan, GGS Controller, and various sensors included in the kit.

4. Setup Guide

4.1. Fan Installation

The 6-inch grow tent fan features an adjustable grip clip for secure placement on tent poles.

- Identify a suitable location within your grow tent for optimal airflow.
- Open the adjustable grip clip and attach it firmly to a tent pole (suitable for poles ranging from 16mm to 25mm). Ensure the thick rubber pad prevents scratching.
- Adjust the fan's angle manually for desired vertical airflow. The fan also offers 90° horizontal automatic oscillation.



Image: The Spider Farmer grow tent fan installed inside a grow tent, demonstrating its airflow capabilities.

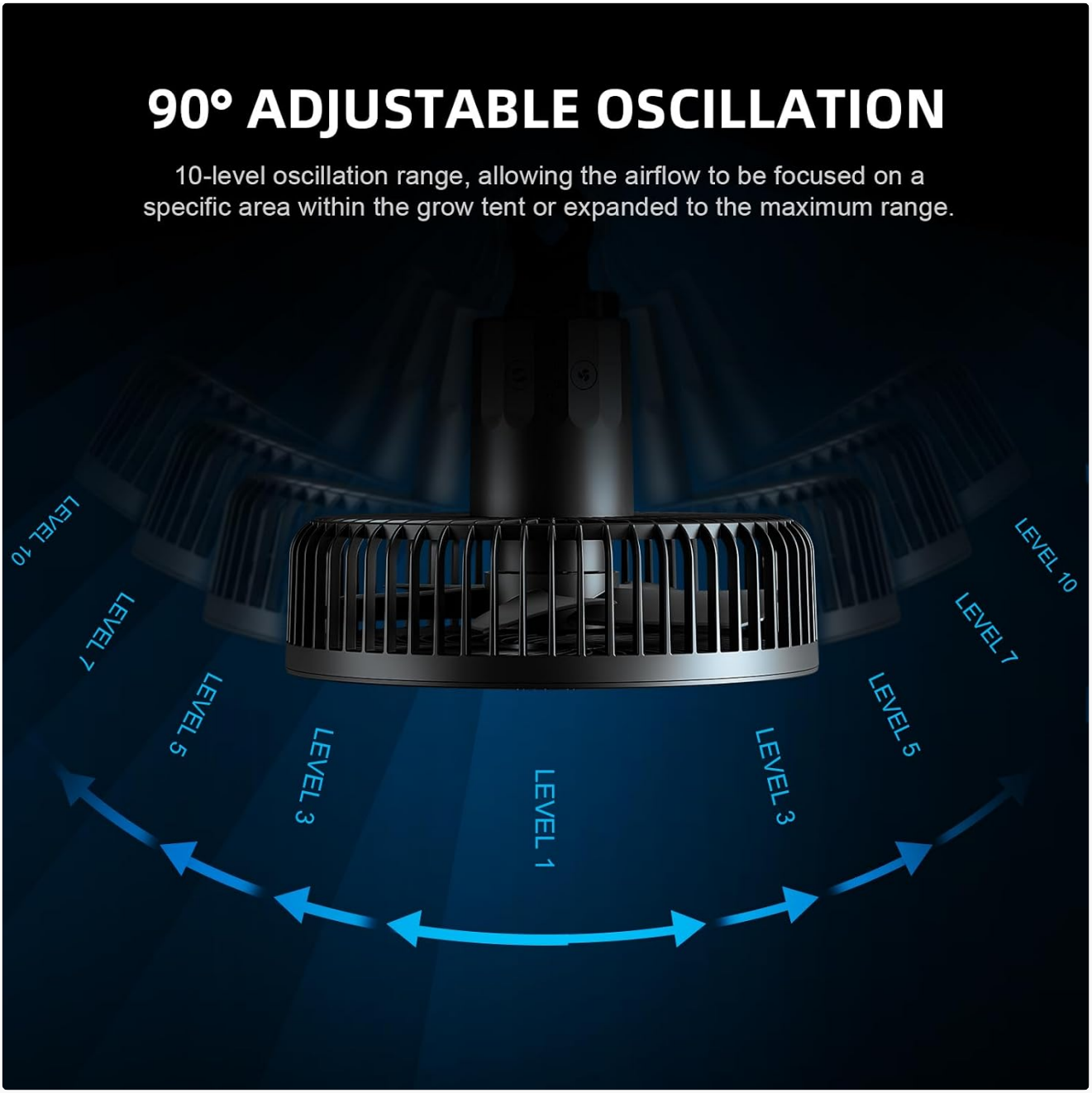


Image: Diagram illustrating the 90-degree adjustable oscillation range of the Spider Farmer grow tent fan.

4.2. Controller & Sensor Connection

The GGS Smart Environmental Controller serves as the central hub for your environmental monitoring and control.

- Place the GGS Controller in a convenient location, ensuring it is protected from moisture.
- Connect the power adapter to the GGS Controller and plug it into a power outlet.
- Connect the 4-in-1 GGS Sensor Pro (VPD/PPFD/Temp/Humid) to the designated port on the controller. Position the sensor near your plants for accurate readings.
- Connect the CO2 Sensor to its designated port on the controller. Ensure it is placed at plant canopy level for precise CO2 monitoring.
- Connect the 6-inch grow tent fan to the appropriate fan control port on the GGS Controller.



Image: Close-up view of the Spider Farmer 4-in-1 Sensor Pro, which measures PPFD, VPD, temperature, and humidity.

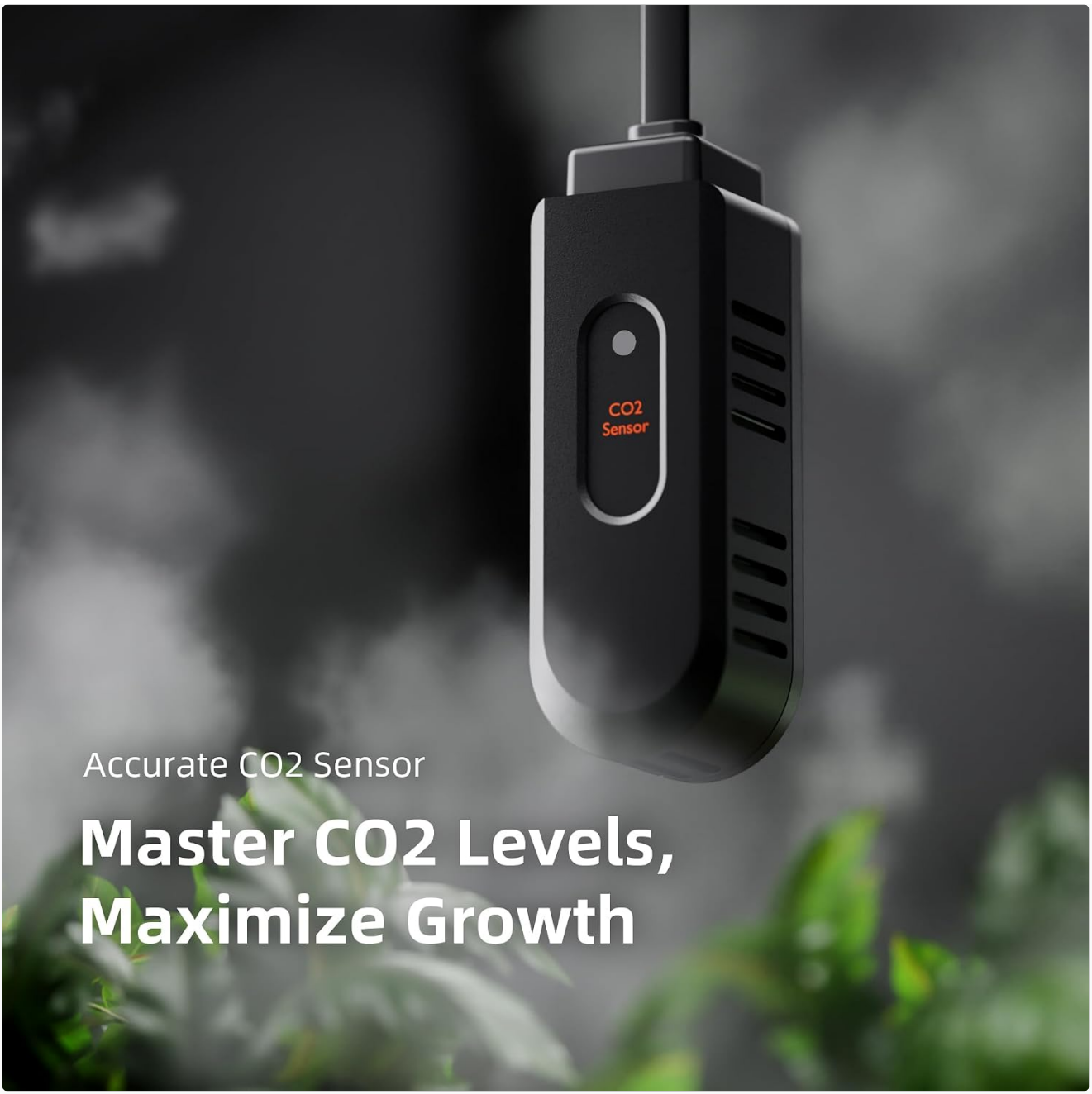


Image: Detailed view of the Spider Farmer CO2 Sensor, designed for accurate carbon dioxide level detection.

4.3. App Integration

For advanced control and monitoring, download the Spider Farmer app on your smartphone.

- Scan the QR code provided in the controller's quick start guide or search for "Spider Farmer" in your app store.
- Follow the in-app instructions to pair your GGS Controller with the app via Wi-Fi.
- Once connected, you can monitor real-time data and adjust settings remotely.

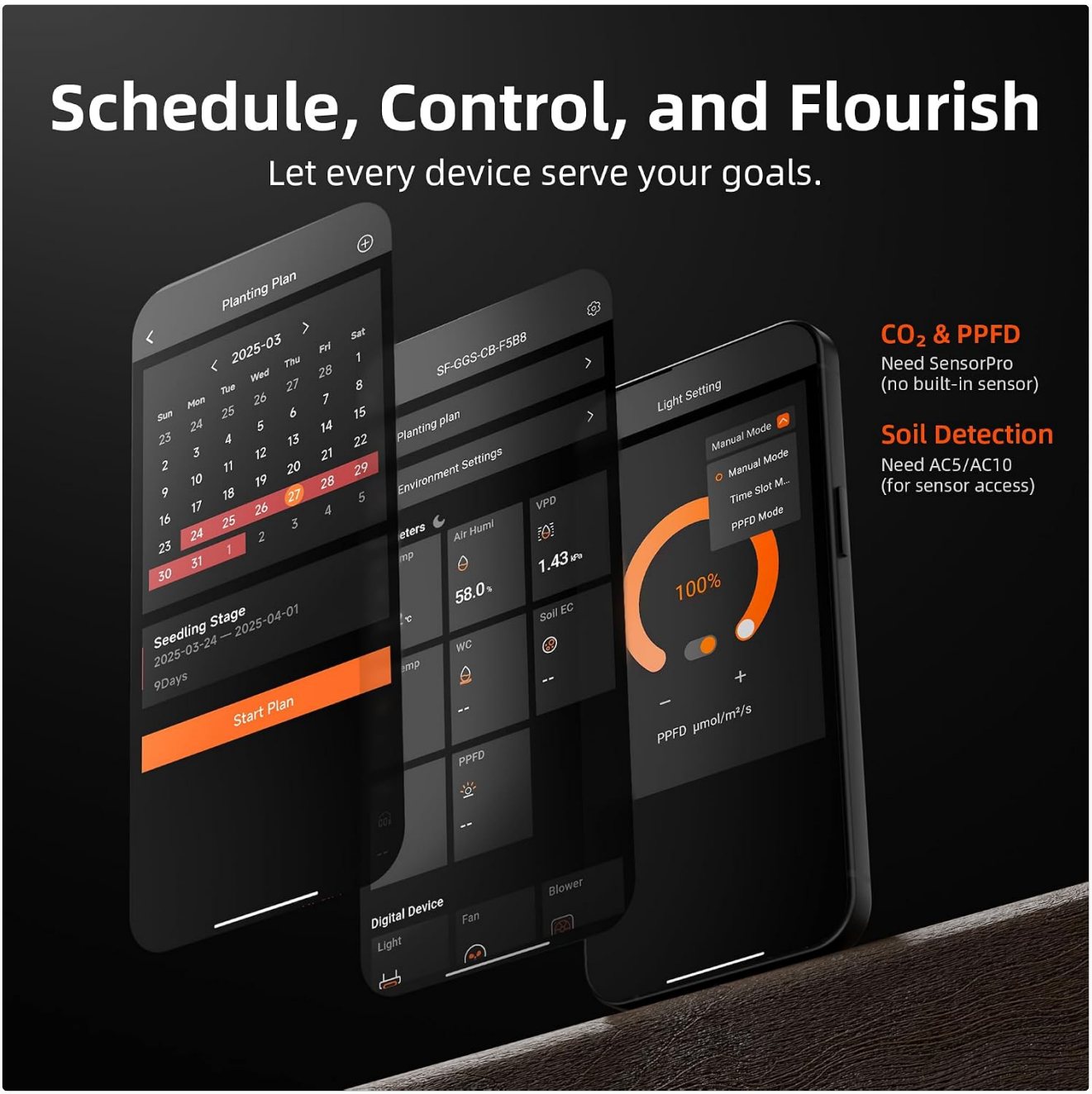


Image: Screenshots of the Spider Farmer mobile application interface, showing various control and monitoring options.

5. Operation

5.1. Fan Operation

The 6-inch grow tent fan offers precise airflow control for optimal plant growth.

- **Speed Control:** The professional EC motor allows for 10 customizable speeds, ranging from 0 to 2100 RPM. Adjust the speed via the GGS Controller or the Spider Farmer app to suit different plant growth stages.
- **Oscillation:** The fan features 90° horizontal automatic oscillation to ensure wide-angle air distribution. It also has a 100° vertical manual adjustment. The fan is designed to rebound automatically if it contacts an object, preventing damage.
- **Natural Wind Mode:** Utilize the innovative natural wind mode to reduce plant stress by simulating natural outdoor breezes.



Image: Exploded view diagram of the Spider Farmer fan's professional EC motor, highlighting its internal components.

5.2. GGS Smart Environmental Controller Operation

The GGS Controller allows for automated management of your grow environment.

- **Display Interface:** The controller features a clear display showing real-time temperature, humidity, VPD, PPFD, and CO2 levels.
- **Environmental Settings:** Access the 'Environment Settings' menu to configure day and night time periods, and set target temperature and humidity levels.
- **Light Control:** Manage light schedules, brightness percentages, dimming temperatures, and shut-off temperatures.
- **Automated Control:** Set up automated rules based on sensor readings. For example, you can program the fan to increase speed if temperature exceeds a certain threshold, or activate CO2 enrichment when levels drop.
- **Planting Plan:** Utilize the planting plan feature (accessible via the app) to schedule and manage different growth stages, optimizing environmental parameters accordingly.



Image: The main interface of the Spider Farmer GGS Controller, displaying environmental settings and real-time data.



Image: Illustration of the PPFD Mode Intelligent Control feature, showing how the Spider Farmer app can adjust light intensity based on plant needs.

5.3. Sensor Monitoring

The GGS Sensor Pro and CO2 Sensor provide real-time data for precise environmental control.

- **4-in-1 Sensor Pro:** Monitors Vapor Pressure Deficit (VPD), Photosynthetic Photon Flux Density (PPFD), Temperature, and Humidity. These parameters are crucial for optimizing plant transpiration and photosynthesis.
- **CO2 Sensor:** Provides accurate readings of carbon dioxide levels, allowing you to maintain optimal CO2 enrichment for enhanced plant growth.
- **Data Logging:** The controller and app can log historical data, enabling you to analyze trends and make informed adjustments to your growing environment.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Spider Farmer system.

- **Fan Cleaning:** Periodically clean the fan blades and housing to prevent dust buildup, which can reduce airflow and efficiency. Use a soft, dry cloth or a vacuum cleaner with a brush attachment. Do not use harsh chemicals or abrasive cleaners.
- **Sensor Cleaning:** Gently wipe the sensor surfaces with a soft, dry cloth to remove any dust or debris. Avoid touching the sensor elements directly.
- **Controller Care:** Keep the controller clean and dry. Avoid exposing it to extreme temperatures or direct sunlight.
- **Cable Inspection:** Regularly inspect all cables and connections for any signs of wear, fraying, or damage. Replace damaged cables immediately.

7. Troubleshooting

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

Problem	Possible Cause	Solution
Fan not spinning	No power; Loose connection; Fan motor issue	Check power outlet; Ensure all cables are securely connected to the controller and fan; Contact support if motor issue suspected.
Controller display is blank	No power; Power adapter faulty	Verify power connection; Try a different power outlet; Check power adapter for damage.
Inaccurate sensor readings	Sensor dirty; Sensor placement; Calibration needed	Clean sensor surface gently; Ensure sensor is placed correctly at plant level; Refer to app for calibration options if available.
App cannot connect to controller	Wi-Fi issue; Incorrect pairing; Controller offline	Ensure controller is powered on and Wi-Fi is active; Re-attempt pairing process in the app; Check Wi-Fi signal strength.
Fan oscillation not working	Obstruction; Mechanical issue	Check for any physical obstructions; Ensure fan is securely mounted and not binding; Contact support if mechanical issue.

8. Specifications

Component	Specification
Grow Tent Fan Size	6 inches
Fan Motor Type	EC Motor
Fan Speed Range	0 to 2100 RPM (10 customizable speeds)
Fan Oscillation	90° Horizontal Automatic, 100° Vertical Manual
Fan Pole Compatibility	16mm to 25mm

Component	Specification
GGS Sensor Pro Functions	4-in-1: VPD, PPFD, Temperature, Humidity
CO2 Sensor	Included
Controller Connectivity	Wi-Fi (for app integration)
Power Input	Standard AC Adapter (included)

9. Warranty Information

Spider Farmer products are manufactured to high-quality standards. This product comes with a limited warranty against defects in materials and workmanship. Please refer to the warranty card included in your package or visit the official Spider Farmer website for detailed warranty terms and conditions. Keep your purchase receipt as proof of purchase for warranty claims.

10. Customer Support

For technical assistance, troubleshooting, or warranty inquiries, please contact Spider Farmer customer support:

- **Website:** www.spider-farmer.com
- **Email:** Refer to the website for specific support email addresses.
- **Online Resources:** Check the Spider Farmer website for FAQs, video tutorials, and updated product information.

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