Spider Farmer SmartG12

Spider Farmer SmartG12 Hydroponics Growing System User Manual

Model: SmartG12
Brand: Spider Farmer

Introduction

The Spider Farmer SmartG12 Hydroponics Growing System is designed to allow you to grow a variety of herbs, vegetables, and flowers indoors, year-round, without the need for soil. This system features a 12-pod capacity, a 36W full-spectrum LED grow light, and smart controls via an exclusive mobile application and Wi-Fi connectivity. It includes a 6-liter water tank and an automatic pump system to ensure optimal plant hydration and nutrient delivery. The SmartG12 is engineered for ease of use, providing an efficient and convenient indoor gardening experience.

Product Features

- **12-Pod Capacity:** Grow up to 12 of your favorite herbs, vegetables, or flowers indoors and year-round, without soil.
- **Smart APP & WiFi Control:** Easily set a 0-24 hour LED lighting schedule with the exclusive Spider Farmer app. Monitor water level, temperature, humidity, and receive nutritional solution cycle reminders.
- **36W Full-Spectrum LED Grow Light:** Provides the full spectrum of light necessary for rapid plant growth, up to 5 times faster than traditional soil gardening.
- **Adjustable Grow Height:** The light can be adjusted up to 27.6 inches (70 cm) to accommodate various plant sizes and growth stages.
- **Large 6L Water Tank:** Features a generous 6-liter water reservoir and grow deck, reducing the frequency of refills.
- **Automatic Pump System:** Ensures consistent water circulation and oxygenation for healthy root development.
- **Vacation Mode:** Helps maintain plant health while you are away.
- **Innovative Reminder System:** Provides timely alerts for watering and nutrient solution changes.

What's in the Box

Upon opening the package, please verify that all the following components are included:

- Spider Farmer SmartG12 Hydroponics System Unit (Base with Water Tank and Grow Deck)
- Adjustable LED Grow Light with Support Pole
- Power Adapter
- 2 x Nutrition Bottles (A+B Plant Food)
- T-Spanner
- 1 x Water Injection Cover
- 12 x Pod Covers
- 12 x Grow Baskets
- 12 x Grow Sponges



Image: All components included in the Spider Farmer SmartG12 package.

Setup Guide

1. **Unpack Components:** Carefully remove all items from the packaging and place them on a clean, flat surface.
2. **Assemble Light Pole:** Insert the adjustable light pole into the designated slot on the main unit base. Ensure it is securely seated.
3. **Attach LED Grow Light:** Slide the LED grow light panel onto the top of the adjustable light pole until it clicks into place.
4. **Prepare Grow Pods:**
    - Place one grow sponge into each grow basket.
    - Insert your desired seeds into the center of each grow sponge.
    - Place the assembled grow baskets into the openings on the grow deck.
    - Cover any unused openings with the provided pod covers to prevent algae growth.
5. **Fill Water Tank:** Open the water injection cover and fill the 6-liter water tank with clean water up to the "MAX" line indicated on the side.
6. **Add Nutrients:** Refer to the nutrient solution instructions provided with your plant food (A+B bottles) for the correct dosage. Add the specified amount of nutrient solution to the water tank.
7. **Connect Power:** Plug the power adapter into the unit and then into a standard electrical outlet.
8. **Download App (Optional but Recommended):** Search for the "Spider Farmer" app on your smartphone's app store (iOS or Android) and download it. Follow the in-app instructions to connect your device to the SmartG12 system via Wi-Fi.



Image: Fully assembled Spider Farmer SmartG12 Hydroponics System.

Operating Instructions

Control Panel Functions:

The unit features a simple control panel with touch-sensitive buttons:

- **Power Button:** Turns the system on or off.
- **Time Button:** Adjusts the lighting schedule (e.g., 8H, 12H, 16H).
- **Veg Button:** Activates the vegetative growth light spectrum.
- **Flowers Button:** Activates the flowering/fruiting light spectrum.



Image: Spider Farmer SmartG12 control panel and mobile app interface.

Using the Spider Farmer App:

The Spider Farmer app provides advanced control and monitoring capabilities:

- **Lighting Schedule:** Set a precise 0-24 hour lighting schedule. The app allows for more granular control than the physical buttons.
- **Plant Modes:** Choose from 6 pre-set vegetable modes or create 5 custom modes tailored to your specific plants.
- **Water Pump Timing:** Customize the water pump's on/off timing to enhance water circulation and plant oxygenation.
- **Monitoring:** View real-time data on water level, temperature, and humidity.
- **Reminders:** Receive notifications for low water levels and when it's time to change the nutritional solution.
- **Vacation Mode:** Activate vacation mode to optimize settings for periods of absence, ensuring plant health.



Image: Setting the 0-24 hour lighting schedule via the Spider Farmer app.



Image: Customizing water pump timing for enhanced circulation.

Maintenance

Water and Nutrient Management:

- **Regular Refills:** Check the water level daily. Refill the tank with fresh water and nutrient solution as needed, especially when the low water reminder activates.
- **Nutrient Solution Change:** It is recommended to completely change the water and nutrient solution every 2-3 weeks, or as indicated by the app's reminder, to ensure optimal nutrient balance and prevent buildup.

Cleaning:

- **Water Tank:** Periodically clean the water tank to prevent algae growth and mineral buildup. The tank can be easily removed from the electronic base for thorough cleaning. Use a soft brush and mild soap, then rinse thoroughly.
- **Grow Deck and Baskets:** Clean the grow deck and baskets between planting cycles.
- **Pump:** Ensure the water pump intake is clear of debris to maintain efficient operation.

Light Adjustment:

- As your plants grow, adjust the height of the LED grow light to maintain an optimal distance from the plant canopy. This ensures even light distribution and prevents light burn. The light can be adjusted up to 27.6 inches.



Image: Adjustable height feature and 6L water tank capacity.

Troubleshooting

Problem	Possible Cause	Solution
System does not power on.	Power adapter not connected, power outlet issue, unit malfunction.	Ensure power adapter is securely plugged into the unit and a working electrical outlet. Try a different outlet. If problem persists, contact customer support.

Problem	Possible Cause	Solution
LED grow light is not working or flickering.	Light not properly connected, light setting incorrect, LED malfunction.	Check the connection of the LED light to the pole. Verify light settings via the control panel or app. If flickering or dimming persists, contact customer support.
Water pump is not circulating water.	Low water level, pump clogged, pump malfunction.	Check water level and refill if necessary. Inspect the pump intake for any debris and clean if clogged. Ensure pump timing is set correctly in the app.
Plants are not growing well.	Incorrect nutrient levels, improper light cycle, water quality issues, environmental factors.	Verify nutrient solution concentration. Adjust light cycle and height according to plant needs. Ensure water quality is suitable. Check room temperature and humidity.
Cannot connect to the app.	Incorrect Wi-Fi password, network issues, app version outdated.	Ensure correct Wi-Fi password. Restart your router and the hydroponics unit. Update the Spider Farmer app to the latest version. Ensure your device is on a 2.4GHz Wi-Fi network if applicable.

Specifications

- **Model:** SmartG12
- **Product Dimensions:** 11.4 x 9 x 17.7 inches (29 x 22.8 x 45 cm)
- **Item Weight:** 7.3 pounds (3.3 kg)
- **Water Tank Capacity:** 6 Liters
- **Pod Capacity:** 12 Pods
- **LED Grow Light Power:** 36W
- **LED Spectrum:** Full-Spectrum (Red, Blue, Warm White, White)
- **Adjustable Grow Height:** Up to 27.6 inches (70 cm)
- **Control:** APP & WiFi Controlled, On-unit touch panel
- **Pump System:** Intelligent Silent Watering System

Warranty and Support

For warranty information, technical support, or any inquiries regarding your Spider Farmer SmartG12 Hydroponics Growing System, please contact Spider Farmer customer service directly. Refer to the product packaging or the official Spider Farmer website for the most up-to-date contact details and warranty terms.

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