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MARS HYDRO FC1500 Grow Kit

MARS HYDRO 3x3 Smart Grow Tent Kit with FC1500 Light and H&T Controller User Manual

Model: FC1500 Grow Kit | Brand: MARS HYDRO

INTRODUCTION

Welcome to the MARS HYDRO 3x3 Smart Grow Tent Kit user manual. This comprehensive system is designed to provide an optimal environment for plant cultivation, featuring advanced lighting, ventilation, and smart control capabilities. Please read this manual thoroughly before setup and operation to ensure safe and efficient use of your grow tent kit.



Image: Overview of the MARS HYDRO 2.7x2.7 FT Grow Tent Kit, showcasing its complete system components.

WHAT'S INCLUDED

Your MARS HYDRO 3x3 Smart Grow Tent Kit includes the following components:

- FC1500 EVO Samsung LM301H EVO LED Grow Light
- 32"x32"x63" Grow Tent
- 4-inch 205 CFM Inline Fan
- Digital Temperature and Humidity Controller

- Carbon Filter
- 25ft Ducting
- 6-inch Clip Fan
- Grow Room Glasses
- Elastic Trellis Netting
- 2pcs Vent Covers
- 3pcs Stainless Clamps
- 4pcs Grow Bags
- Timer
- Humidity Thermometer
- Pruning Shear
- 2pcs Corner Shelf
- 2pcs Rope Hangers



Image: A visual representation of all components included in the MARS HYDRO 3x3 Smart Grow Tent Kit.

SETUP INSTRUCTIONS

Follow these steps for convenient and hassle-free installation of your grow tent:

1. **Step 1: Assemble the Metal Frame.** Verify all components are present and assemble the metal frame according to the provided diagrams.
2. **Step 2: Drape the Tent Fabric.** Position the tent frame horizontally and carefully drape the tent fabric over it.
3. **Step 3: Stand the Tent Upright.** Gently stand the tent upright, ensuring the frame is properly seated within the fabric.
4. **Step 4: Install Hanging Bars and Floor Tray.** Install the hanging bars inside the tent and position the removable floor tray at the bottom.

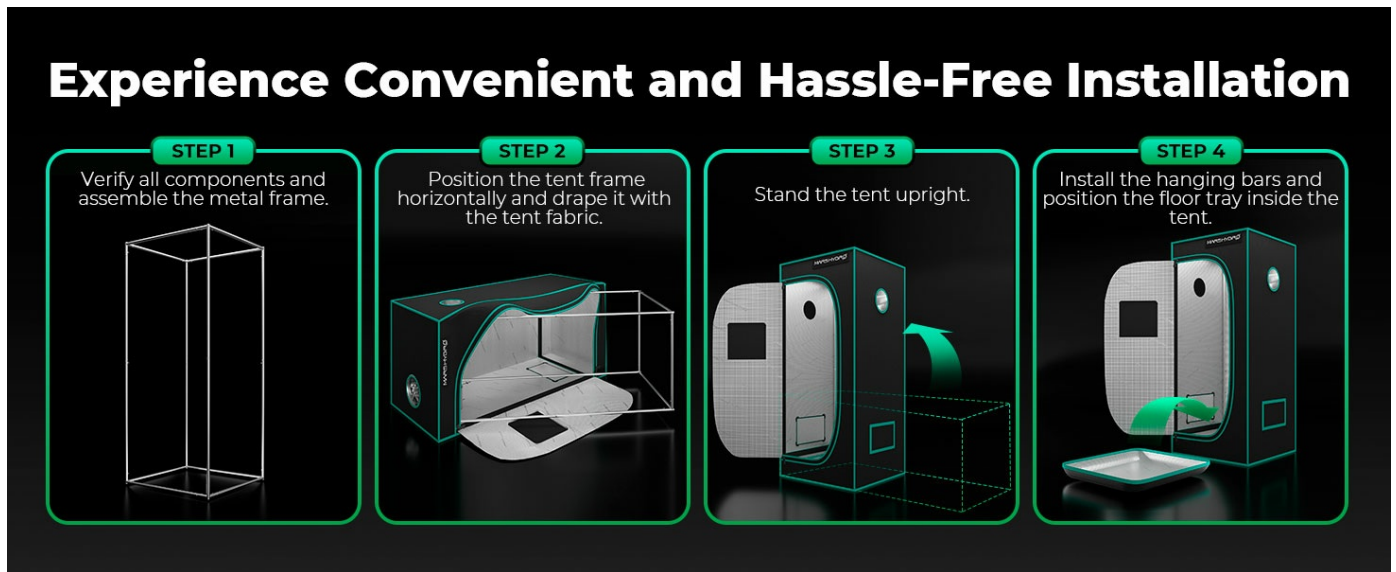


Image: A step-by-step visual guide illustrating the assembly process of the grow tent.

Tent Features

- **High Reflective Interior:** The tent interior features 1680D diamond mylar, boosting PPFD by 25% compared to 600D materials.
- **Light Leakage Prevention:** Heavy-duty zippers with unique light-blocking strips and adjustable ventilation ports with light-tight seals minimize light leakage.
- **Sturdy Metal Frame:** The 0.8mm thick metal frame with 16mm diameter poles ensures security and stability, supporting up to 88lb/40kg.
- **Convenient Access:** Includes a view window, convenient tool storage bag, and 6 adjustable vents.
- **Removable Floor Tray:** For easy cleaning and maintenance.

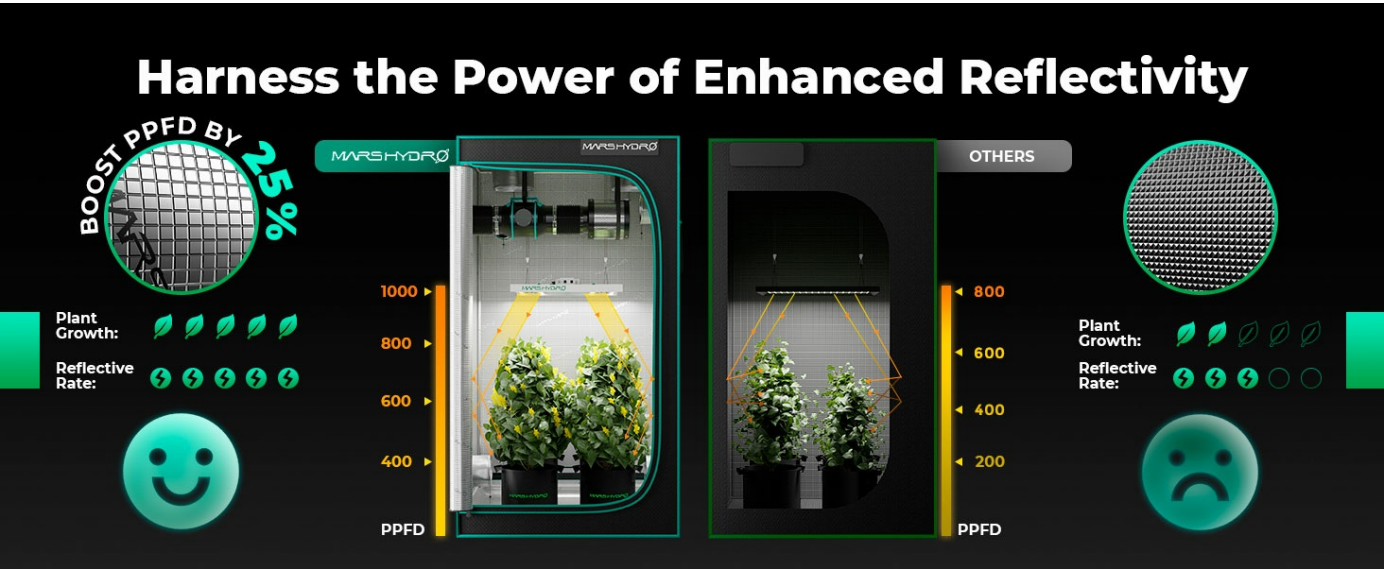


Image: Illustration demonstrating the enhanced reflectivity of the MARS HYDRO tent interior, leading to a 25% PPFD boost.



Image: Detailed view of the grow tent's light leakage prevention features, including double-protected zippers and adjustable ventilation ports.

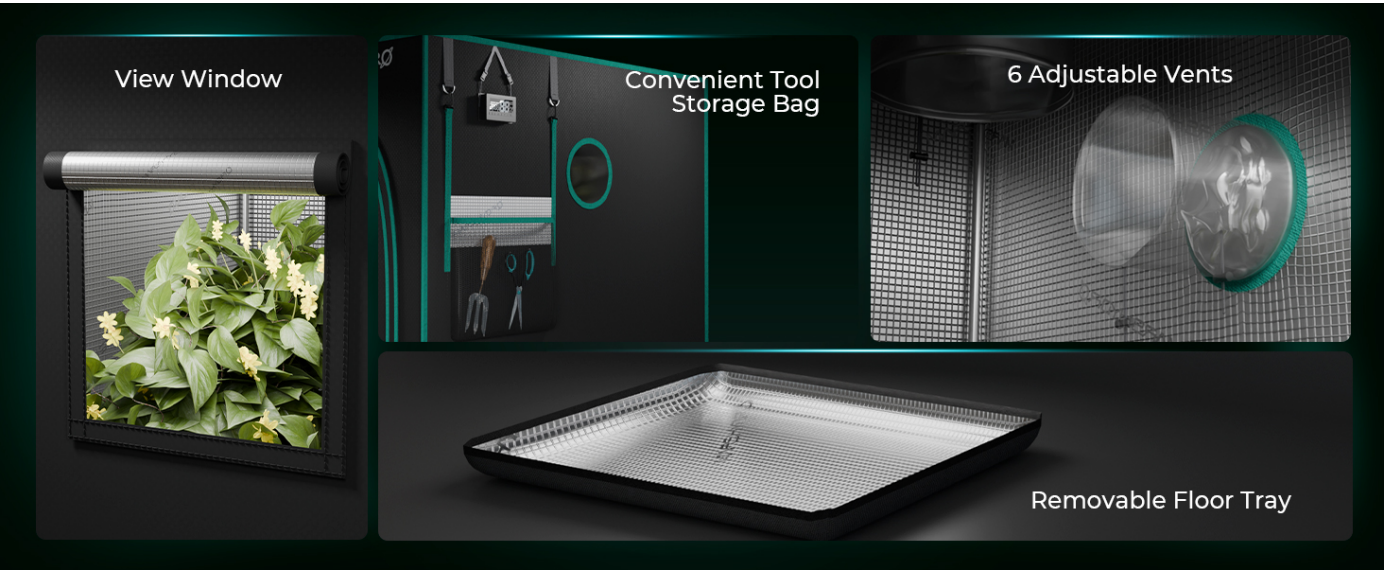


Image: Various interior features of the grow tent, such as a view window, tool storage bag, adjustable vents, and a removable floor tray.

OPERATING INSTRUCTIONS

FC1500 EVO LED Grow Light

The FC1500 EVO grow light is equipped with Samsung LM301H EVO diodes, providing a full spectrum light suitable for all stages of plant growth. It offers 0 to 100% light brightness adjustment for energy saving and optimal plant development.

- **Optimized Full Spectrum:** Features warm white light (3000K) for boosting flowering, white light (5000K) for promoting germination, and rich red light (660-665nm) for enhancing crop quality and yield.
- **High PPFD:** Delivers a PPFD of up to 420 $\mu\text{mol}/\text{m}^2/\text{s}$, ensuring sufficient light penetration for each leaf and bud.
- **Smart Dimming:** Adjust light intensity from 0% to 100%.

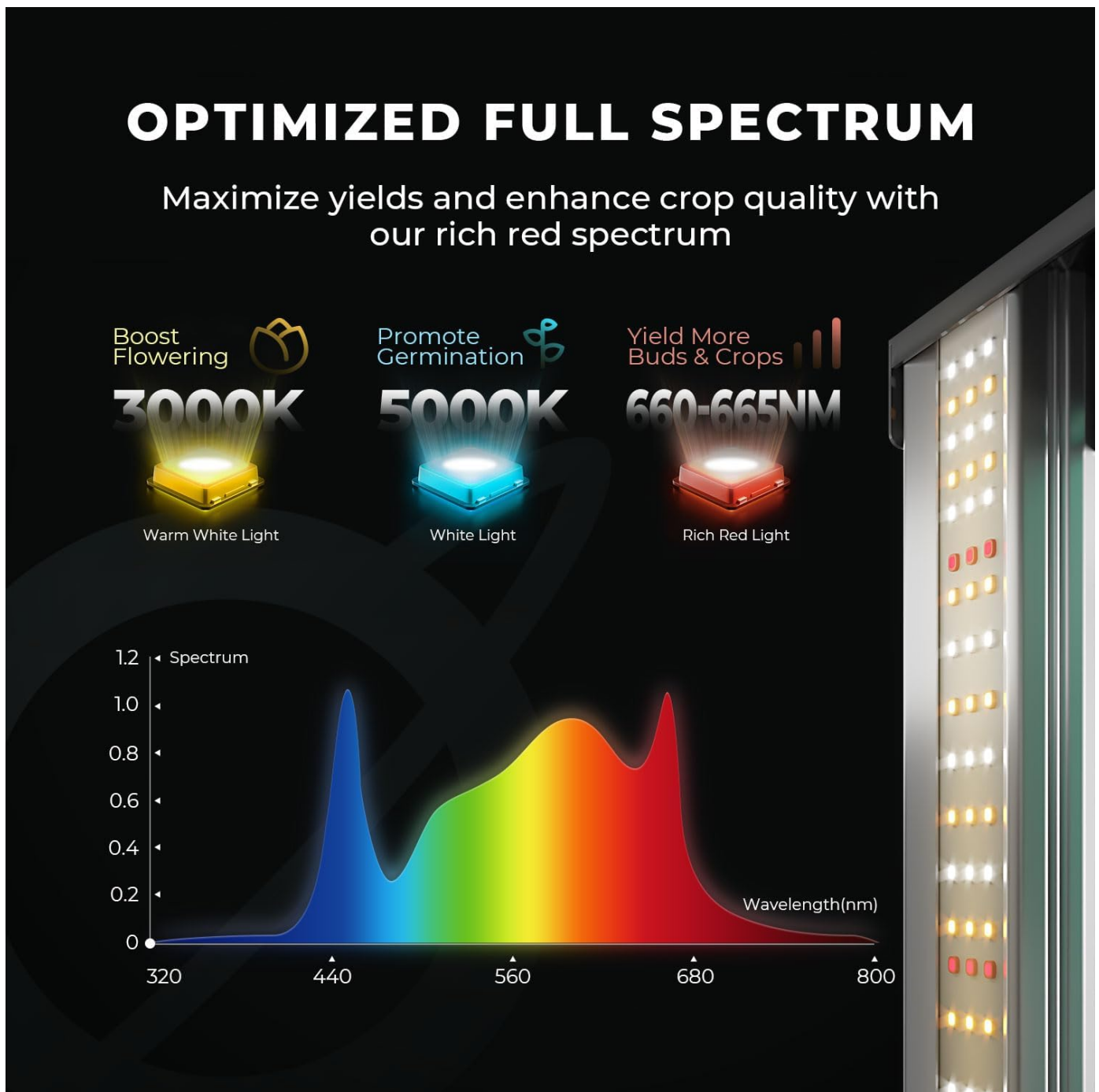


Image: Diagram illustrating the optimized full spectrum of the grow light, highlighting warm white, white, and rich red light wavelengths.

FC-E1500 PPFD MAP

High light effectively pierces canopy providing sufficient light for each leaf and bud

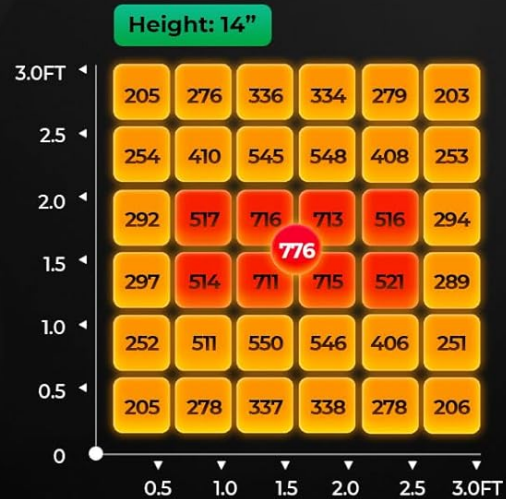
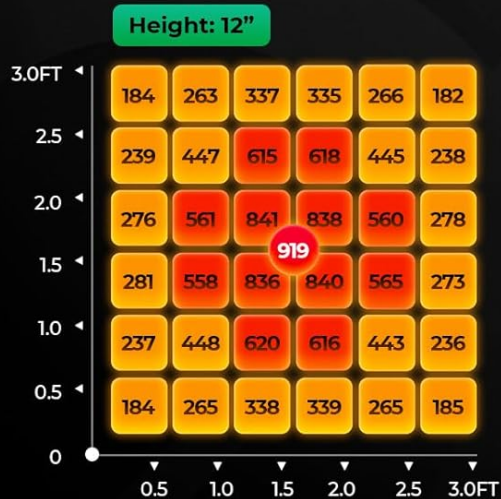
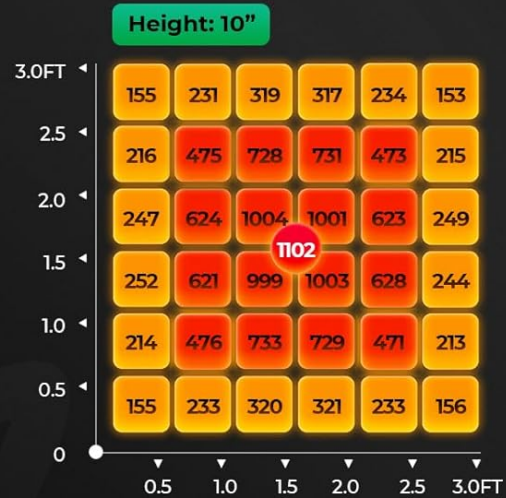


Image: FC-E1500 PPFD map, indicating light distribution and intensity at different hanging heights (10, 12, and 14 inches).

RECCOMENDED HANGING AND DIMMING HEIGHTS







	REQUIRED PPFD	HEIGHT	DIMMING	WORKING TIME
SEEDING STAGE 	100-300 $\mu\text{mol}/\text{m}^2/\text{s}$	25CM	25% 	18H ON
VEGETATIVE STAGE 	400-600 $\mu\text{mol}/\text{m}^2/\text{s}$	25CM	75% 	18H ON
FLOWERING STAGE 	800-1000 $\mu\text{mol}/\text{m}^2/\text{s}$	25CM	100% 	12H ON

Image: Table showing recommended hanging heights, dimming percentages, and working times for seeding, vegetative, and flowering stages.

4-inch Automatic Ventilation System

The kit includes a 4-inch inline fan and carbon filter to maintain optimal air quality and circulation within the tent.

- **Inline Fan:** A 4-inch 205 CFM inline fan with a mixed flow design, adjustable speed from 0 to 100%, and low noise level (26.8 dB).
- **Carbon Filter:** Features 1050+ RC 48 Australian Virgin Charcoal with 25ft length flex ducting, effectively filtering impurities and odors.
- **Clip Fan:** A 6-inch clip fan for additional air circulation, offering 10 customizable speeds and APP control.



Image: Illustration of the 4-inch inline fan with its powerful and efficient EC motor, highlighting its low noise level of 26.8 dB.

4 INCH POWERFUL AND EFFICIENCY INLINE FAN

Speed
3000 RPM

Airflow
205 CFM

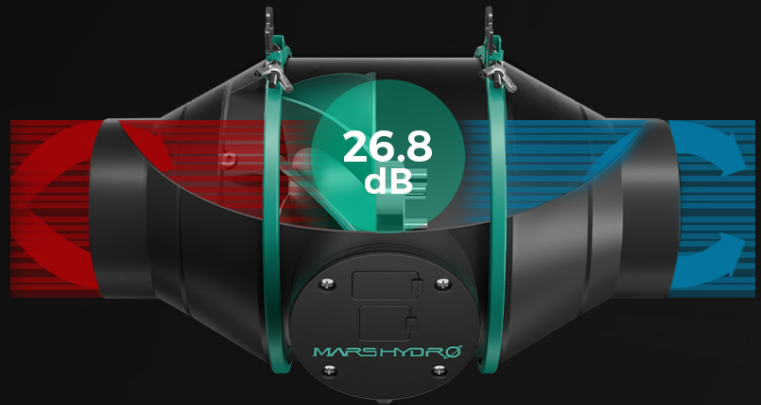


Image: Technical specifications of the 4-inch inline fan, detailing its 3000 RPM speed and 205 CFM airflow.

- Designed to Eliminate Odors and Chemicals for Grow Tents and Hydroponics Room
- Enables Maximum Airflow Passthrough for Both Intake and Exhaust Configurations
- Heavy-duty Construction Contains Aluminum Flanges and Dual-sided Galvanized Steel Mesh



Image: Exploded view of the carbon filter, highlighting its heavy-duty construction, galvanized steel mesh, and Australian Virgin Charcoal bed for odor elimination.

Image: Key features of the MARS clip fan, including its 10 customizable speeds, powerful airflow, APP control, and long lifespan.

Digital Temperature and Humidity Controller

The intelligent controller allows for programmable control over temperature, humidity, fan speed, timing, and alarm systems. It automatically adjusts ventilation based on set parameters.

- **Auto Mode:** Set high/low temperature and humidity triggers. The fan will automatically activate to maintain desired levels.
- **Timer Mode:** Set specific working times for the fan with a countdown.
- **Display Adjustment:** Adjust display brightness and convert temperature units (Fahrenheit/Celsius).
- **Probe Rectification:** Rectify probe temperature and humidity for accuracy.

INTELLIGENT PROGRAMMING

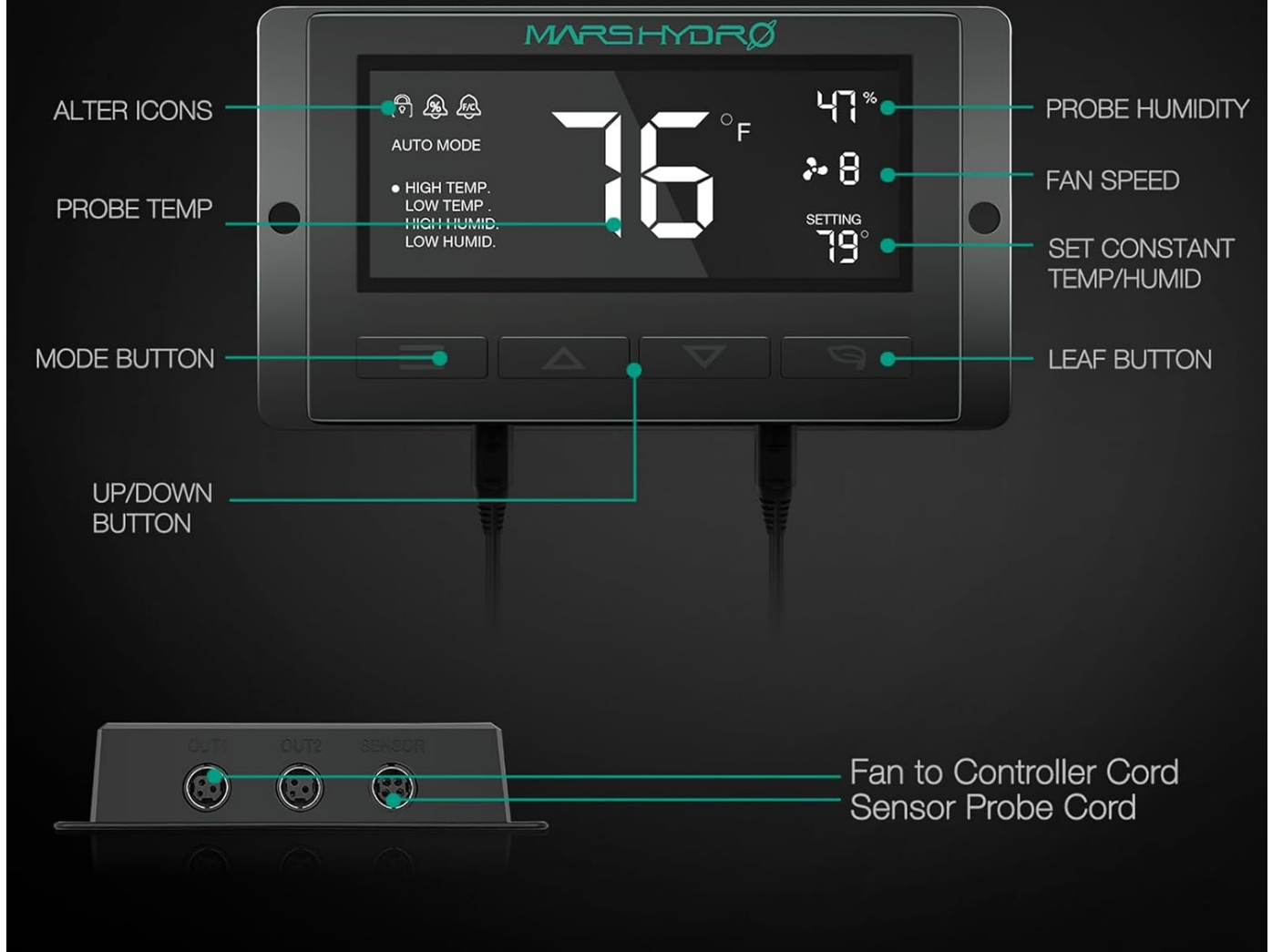


Image: Detailed view of the intelligent controller's display, showing various indicators and settings for temperature, humidity, and fan operation.

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Video: Demonstrates how to customize temperature and humidity settings, and adjust fan speed using the controller.

Remote Smart & Automatic WiFi Control

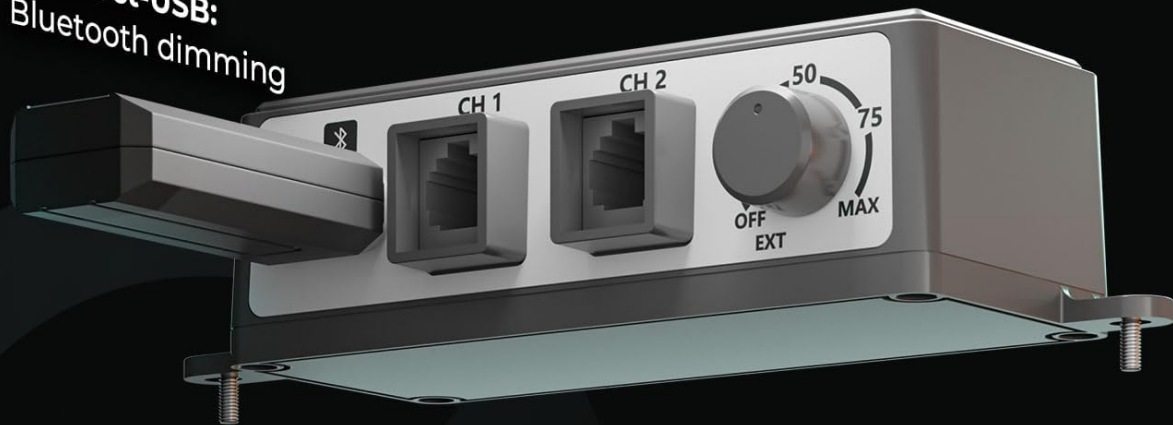
For enhanced control, connect your system via Bluetooth/WiFi to the Mars Hydro APP (requires Iconconnect USB, sold separately). This enables remote lighting control, timed automatic dimming, and custom programming.

- **App Dimming Control:** Control and monitor your grow environment locally and remotely through your phone.
- **Pre-Configured Smart Programming:** Set independent growth schedules for seedling, vegetative, and bloom stages with precise control over light intensity and duration.
- **Timed Automatic Dimming:** Supports up to 5 sets of timed automatic dimming, including sunrise and sunset modes.

APP DIMMING CONTROL

Control & monitor your grow entirely through your phone locally & remotely

iConnect-USB:
Bluetooth dimming



iConnect-USB is not included and must be purchased separately

Image: Screenshot of the app interface for dimming control, indicating Bluetooth connectivity via an iConnect-USB (sold separately).

PRE-CONFIGURED SMART PROGRAMMING

For easier cultivation work Independent growth schedules from seed to harvest precise control of light intensity and duration down to the minute

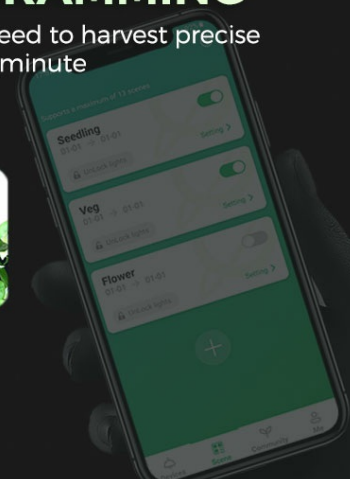
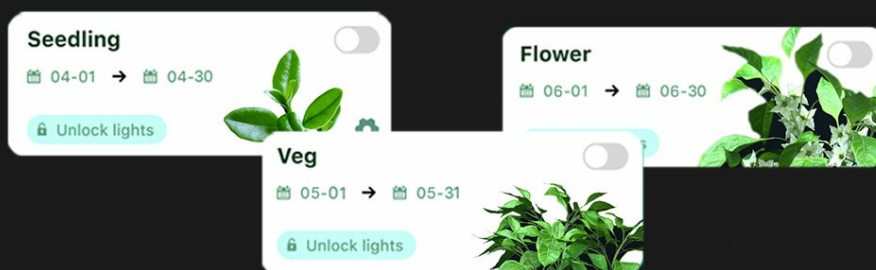


Image: Display of the Mars Hydro app's pre-configured smart programming, allowing users to set schedules for different plant growth stages.

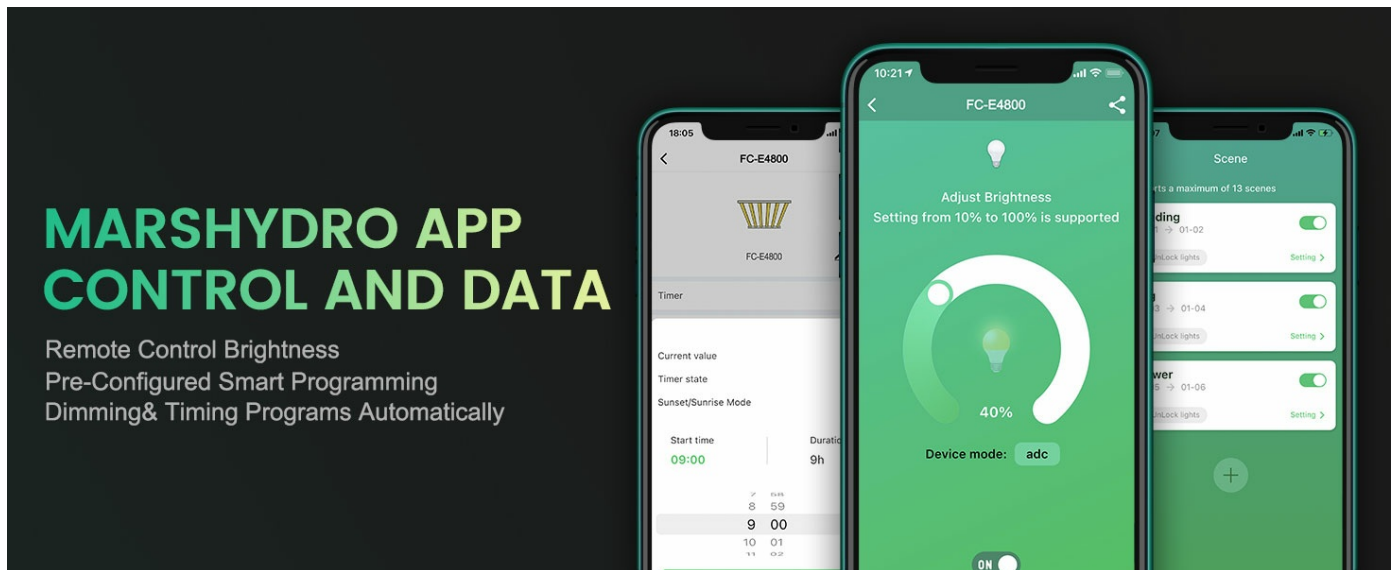


Image: Multiple screens of the Mars Hydro app, demonstrating remote brightness control, pre-configured smart programming, and automatic dimming/timing programs.

MAINTENANCE

- **Grow Tent:** Regularly inspect the tent fabric for any tears or damage. Clean the interior mylar with a damp cloth as needed to maintain reflectivity. Ensure zippers are clean and lubricated for smooth operation. The removable floor tray should be cleaned frequently to prevent buildup.
- **Grow Light:** Keep the LED grow light free from dust and debris. Periodically wipe the light bars with a soft, dry cloth. Ensure proper ventilation around the light to prevent overheating.
- **Inline Fan & Carbon Filter:** Check the inline fan for any obstructions and clean the fan blades if necessary. The carbon filter will need replacement over time, depending on usage and air quality. Refer to the filter's specific instructions for replacement intervals.
- **Controller:** Keep the digital controller clean and dry. Avoid exposing it to excessive moisture or extreme temperatures.

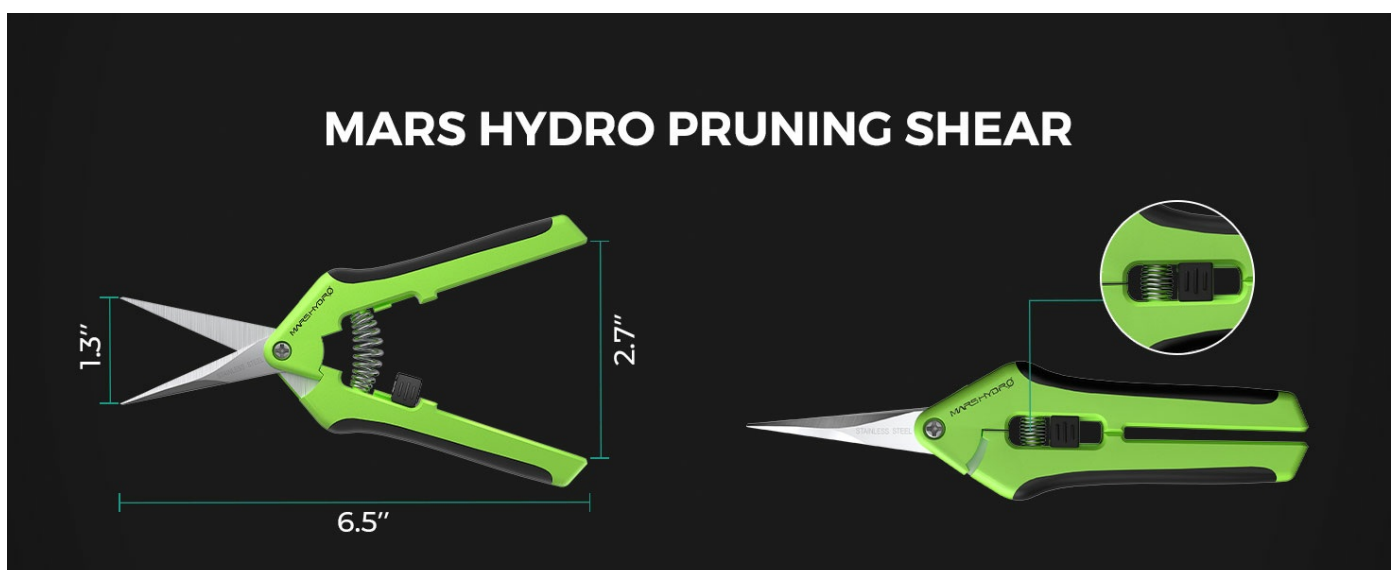


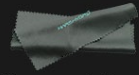
Image: The MARS HYDRO Pruning Shear, an accessory for plant maintenance, shown with its dimensions.

MARS HYDRO UV/IR GLASSES

Constructed using top-tier mineral glass which globally recognized synthetic materials



Glasses case x 1



Glasses cloth x 1



Glasses bag x 1



Eyeglass Cord x 1

Image: MARS HYDRO UV/IR Glasses, designed for eye protection in grow environments, along with their case, cloth, bag, and cord.

TROUBLESHOOTING

• Light Not Turning On:

- Check all power connections to the light and power outlet.
- Ensure the dimmer is not set to 0%.
- Verify the timer settings if using an external timer or app control.

• Fan Not Operating:

- Check power connection to the fan and controller.
- Ensure the controller is in the correct mode (ON or AUTO) and settings are appropriate.
- Inspect for any physical obstructions preventing the fan blades from turning.

• Temperature/Humidity Issues:

- Verify the sensor probe is correctly connected and positioned.
- Check the high/low temperature and humidity settings on the controller.
- Ensure the tent is properly sealed and there are no external factors affecting the internal environment.

• App Connectivity Problems:

- Ensure the Iconconnect USB (if used) is properly installed and powered.
- Check your device's Bluetooth/WiFi connection.
- Restart the app and the controller.

If you encounter persistent issues not covered here, please contact MARS HYDRO customer support for assistance.

SPECIFICATIONS

Feature	Detail
Model Number	FC1500 Grow Kit

Grow Tent Dimensions	32" x 32" x 63"
Grow Tent Material	1680D Diamond Mylar
Grow Light Model	FC1500 EVO LED Grow Light
Light Source Wattage	150 Watts
Inline Fan Airflow	205 CFM
Inline Fan Size	4-inch
Item Weight	48.5 pounds
Package Dimensions	35.4 x 18.8 x 15.8 inches

WARRANTY AND SUPPORT





MARS HYDRO products are designed for quality and durability. For specific warranty information, please refer to the warranty card included with your product or visit the official MARS HYDRO website. If you require technical assistance, have questions about your product, or need to report an issue, please contact MARS HYDRO customer support through their official channels.



Official Website: www.marshydro.com

Customer Service: Refer to your product packaging or official website for contact details.



Related Documents - FC1500 Grow Kit

	<p>Mars Hydro Smart Inline Fan User Manual - Operation and App Control</p> <p>User manual for the Mars Hydro Smart Inline Fan (MARS-FAN-02). Learn about specifications, safety, warranty, and how to control the fan using the Mars Hydro app for optimal ventilation.</p>
	<p>Mars Hydro Intelligent Fan Controller User Manual</p> <p>User manual for the Mars Hydro Intelligent Fan Controller, model Mars-Fan-CP-02. It details operation modes (Auto, On, Off, Timer), alarm settings, programming, and interface controls for managing inline duct fans based on temperature and humidity levels.</p>
	<p>MARS HYDRO Intelligent Fan Controller User Manual</p> <p>User manual for the MARS HYDRO Intelligent Fan Controller, detailing its operational modes (AUTO, TIMER, ON/OFF), alarm settings, controller lock, calibration, and display brightness adjustments.</p>
	<p>Mars Hydro Grow Tent User Manual: Installation, Specifications, and Warranty</p> <p>Comprehensive user manual for Mars Hydro grow tents and LED grow lights, covering installation, product contents, specifications, dimming operation, fan sets, and warranty information.</p>

	<p>Mars Hydro Smart Inline Fan User Manual and Specifications</p> <p>Detailed user manual and specifications for the Mars Hydro Smart Inline Fan (Mars-Fan-05), covering control modes, app connectivity, warranty, and safety guidelines for optimal performance in grow environments.</p>
	<p>Mars Hydro FC Series LED Grow Light User Manual</p> <p>Comprehensive user manual for Mars Hydro FC Series LED Grow Lights, including FC-1500. Provides detailed information on specifications, safety, installation, operation, troubleshooting, and warranty.</p>