

## MARS HYDRO iHub-Pro 10-Outlet

# Mars Hydro iHub-Pro 10-Outlet Smart Grow Room Hub Instruction Manual

Model: iHub-Pro 10-Outlet

## 1. INTRODUCTION

The Mars Hydro iHub-Pro 10-Outlet Smart Grow Room Hub is an intelligent control system designed to automate and manage environmental conditions in your grow room. It provides Wi-Fi enabled control for lighting, temperature, humidity, and Vapor Pressure Deficit (VPD) through its 10 smart outlets and RJ12 ports.

This manual provides detailed instructions for setting up, operating, and maintaining your iHub-Pro to ensure optimal performance and a healthy growing environment.

## 2. PACKAGE CONTENTS

Before you begin, please verify that all items are present in your package:

- 1 × MH-iHub Pro Unit
- 1 × Temp/Humidity/Light 3-in-1 Sensor
- 2 × 0.82ft RJ12 Cords
- 5 × 8.2ft RJ12 Cords
- 3 × RJ12 T-Shape Splitters
- 1 × User Manual (this document)

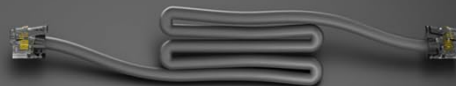
# Package Included



1 × MH-iHub-Pro



1 × MH-Sensor-TH3in1



2 × 2.5 m RJ12  
Connection Cables



5 × 0.25 m RJ12  
Connection Cables



3 × RJ12 T-Shape Splitters

Figure 2.1: Contents of the Mars Hydro iHub-Pro package.

## 3. SETUP INSTRUCTIONS

### 3.1 Physical Installation

1. **Placement:** Position the iHub-Pro in a secure location within your grow room, ensuring it is protected from moisture and direct water exposure.
2. **Power Connection:** Plug the iHub-Pro power cord into a standard electrical outlet.
3. **Device Connections:** Connect your grow room devices (lights, fans, humidifiers, etc.) to the appropriate 10AC outlets on the iHub-Pro. Refer to the labels on the unit for specific device types.
4. **RJ12 Port Connections:** For advanced control and data monitoring, connect compatible Mars Hydro devices (e.g., certain grow lights, inline fans, humidifiers) using the provided RJ12 cables to the corresponding ports (SENSOR, LIGHT 1, LIGHT 2, FAN, EXT 1, EXT 2).

# iHub-Pro 10-Outlet Smart Control System

Each outlet precisely mapped in MarsPro APP

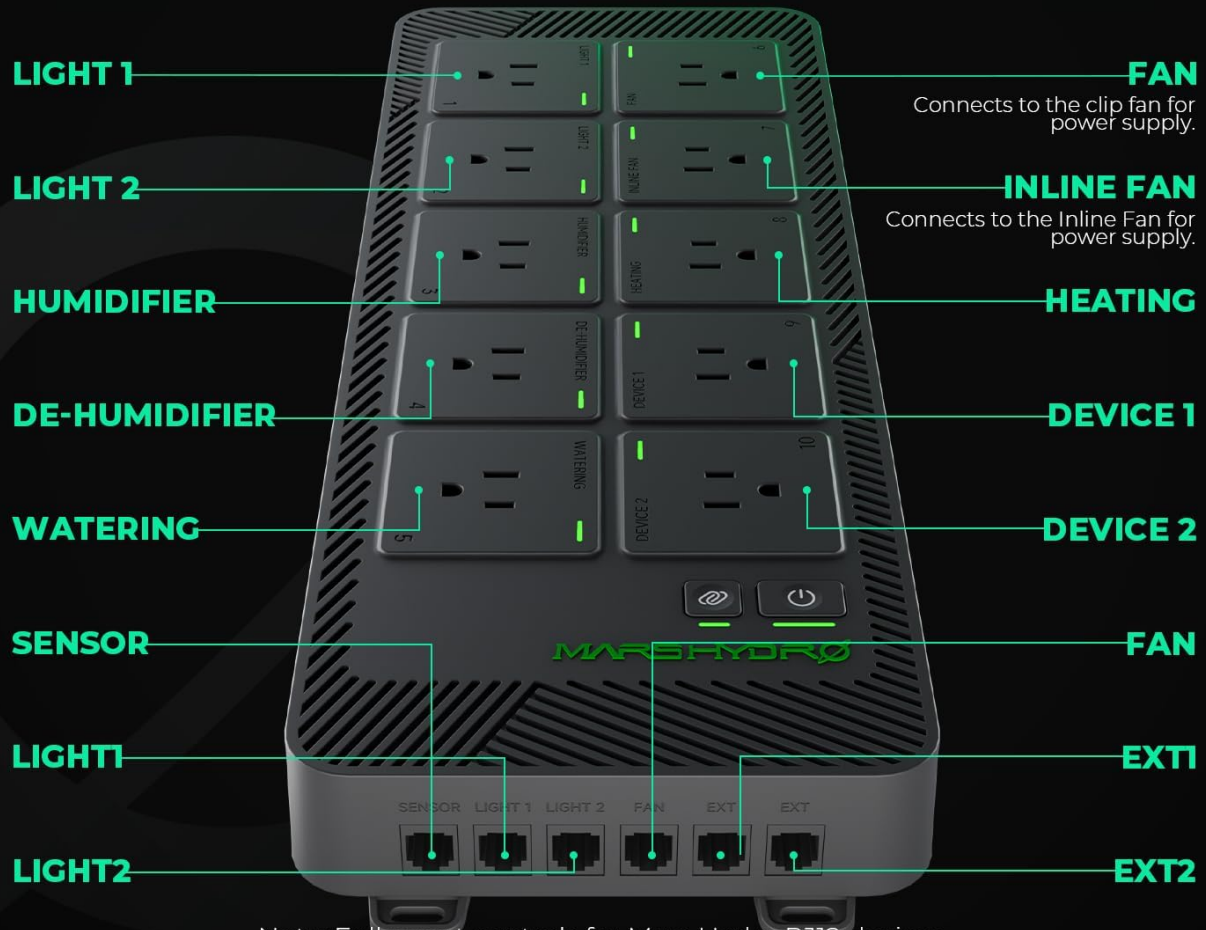


Figure 3.1: Labeled ports and outlets on the iHub-Pro unit.

## 3.2 App Installation and Pairing

1. **Download the MarsPro App:** Search for 'MarsPro' in your smartphone's app store (iOS or Android) and download the application.
2. **Create an Account:** Follow the in-app instructions to create a new user account or log in if you already have one.
3. **Pairing the iHub-Pro:** Within the MarsPro app, follow the prompts to add a new device. Ensure your iHub-Pro is powered on and your smartphone's Bluetooth and Wi-Fi are enabled. The app will guide you through the pairing process.



Figure 3.2: iHub-Pro connected and controlled via the MarsPro app.

### 3.3 Sensor Integration

The iHub-Pro includes a Temp/Humidity/Light 3-in-1 Sensor. Optional PPFD, CO<sub>2</sub>, and soil sensors can be purchased separately to expand monitoring capabilities.

- **Connect Sensors:** Plug the sensor's RJ12 cable into the 'SENSOR' port on the iHub-Pro.
- **Placement:** Position the sensor within your grow environment to accurately monitor conditions.





## UPGRADE YOUR SMART CONTROL SYSTEM WITH THE PPFD SENSOR

Unlock PPFD control functionality for precise, data-driven light management.



Figure 3.3: Example of a PPFD sensor connected to the system.

## ADD CO<sub>2</sub> AND SOIL SENSORS TO YOUR SMART CONTROL SYSTEM



Figure 3.4: Optional CO<sub>2</sub> and soil sensors for enhanced monitoring.

## 4. OPERATING INSTRUCTIONS

### 4.1 Overview of Control Modes

The iHub-Pro supports six primary control modes for comprehensive environmental management:

- **Temperature:** Control devices based on ambient temperature.
- **Humidity:** Manage humidifiers/de-humidifiers based on humidity levels.
- **PPFD:** Adjust lighting intensity based on Photosynthetic Photon Flux Density readings (requires PPFD sensor).
- **CO<sub>2</sub>:** Control CO<sub>2</sub> generators based on CO<sub>2</sub> concentration (requires CO<sub>2</sub> sensor).
- **Timer:** Schedule devices to turn on/off at specific times.
- **Cycle:** Set repeating on/off cycles for devices.

# 10-Outlet Hub • 6 Modes



Figure 4.1: MarsPro app displaying the six control modes.

## 4.2 Device Control via MarsPro App

Once paired, you can control all connected devices and monitor environmental data through the MarsPro app. The app provides real-time data logging and alert functionality.

- **Lighting Control:** Adjust light brightness (10% to 100%), set on/off times, and configure sunrise/sunset simulations.
- **Fan Control:** Manage inline fan speed and clip fan runtime/speed.
- **Humidifier Control:** Set on/off times for humidifiers and de-humidifiers.
- **Automated Scenarios:** Utilize scenario-based cultivation to set phase-specific lighting and environmental presets, allowing the system to automatically transition between growth stages.

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Video 4.1: Demonstrates the unboxing, connection, and app control features of the Mars Hydro iHub-Pro, including light, fan, and humidifier adjustments.

# Intelligent Grow Management iHub-Pro

Smart Environment Control Centralized Device Management



Figure 4.2: Intelligent Grow Management system overview.

## SMART GROW SYSTEM WITH 24/7 MONITORING

Real-time environmental data synchronization. Smart grow insights right at your fingertips.



Figure 4.3: Real-time environmental data monitoring in the MarsPro app.

## 5. MAINTENANCE



To ensure the longevity and optimal performance of your Mars Hydro iHub-Pro, follow these maintenance guidelines:

- **Regular Cleaning:** Periodically wipe down the iHub-Pro unit with a dry, soft cloth to remove dust and debris. Ensure all outlets and ports are free from obstructions.
- **Cable Management:** Keep all power and RJ12 cables neatly organized to prevent tangling, damage, or accidental disconnections.
- **Environmental Conditions:** Operate the iHub-Pro within its specified environmental limits (temperature, humidity) to prevent damage. Avoid exposing the unit to excessive moisture or extreme temperatures.
- **Firmware Updates:** Regularly check the MarsPro app for any available firmware updates for your iHub-Pro. Updates can improve performance, add new features, and enhance stability.

## 6. TROUBLESHOOTING

If you encounter issues with your Mars Hydro iHub-Pro, refer to the following common troubleshooting steps:

- **Device Not Powering On:**
  - Ensure the iHub-Pro is securely plugged into a working power outlet.
  - Check if the power button on the iHub-Pro is pressed.
- **App Connectivity Issues:**
  - Verify your smartphone's Wi-Fi and Bluetooth are enabled.
  - Ensure your iHub-Pro is within range of your Wi-Fi router.
  - Restart the MarsPro app and attempt to reconnect.
  - If issues persist, try resetting the iHub-Pro (refer to the app or Mars Hydro support for specific reset procedures).
- **Connected Device Not Responding:**
  - Check if the device is properly plugged into the iHub-Pro outlet.
  - Ensure the correct outlet is selected and activated in the MarsPro app.
  - For RJ12 connected devices, verify the cable is securely connected to the correct port.
  - Confirm the device itself is functional by plugging it directly into a standard wall outlet.
- **Inaccurate Sensor Readings:**
  - Ensure the sensor is placed in an area that accurately represents the grow room environment, away from direct airflow or heat sources.
  - Clean the sensor regularly to remove dust or debris that might affect readings.

For further assistance, please contact Mars Hydro customer support.

## 7. SPECIFICATIONS

Feature	Specification
Model Number	iHub-Pro 10-Outlet



Total Power Outlets	10
Connectivity	Wi-Fi, Bluetooth, RJ12 Ports
Environmental Control	Light, Temperature, Humidity, VPD, CO <sub>2</sub> , PPFD
Power Plug Type	Type A - 2 pin (North American)
Item Weight	5.04 pounds
Package Dimensions	17.68 x 8.78 x 5.31 inches






## 8. WARRANTY AND SUPPORT

Your Mars Hydro iHub-Pro comes with **2 Years Support Services**. For any questions regarding installation, operation, or troubleshooting, please contact Mars Hydro customer support.

**Contact Information:** Please refer to the official Mars Hydro website or the MarsPro app for the most up-to-date contact details for customer support.

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### Related Documents - iHub-Pro 10-Outlet

	<p><a href="#">Mars Hydro Intelligent Fan Controller User Manual</a></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><a href="#">Mars Hydro Smart Inline Fan User Manual - Operation and App Control</a></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><a href="#">MARS HYDRO Intelligent Fan Controller User Manual</a></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><a href="#">Mars Hydro Grow Tent User Manual: Installation, Specifications, and Warranty</a></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><a href="#">Mars Hydro Smart Inline Fan User Manual and Specifications</a></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>



[Mars Hydro Smart Timer MARS-ITIME-02 User Manual | Specifications & Setup Guide](#)

Comprehensive user manual for the Mars Hydro Smart Timer (Model MARS-ITIME-02). This guide details product specifications, button functions, connection setup via Bluetooth and Wi-Fi, and operational modes including Manual ON/OFF, Recycle, and Multi-timer settings. It also covers important battery safety precautions, warranty information, and instructions for downloading the MarsPro control app. Essential for users managing grow lights or other electrical devices with precise timing.