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MARS HYDRO FC-E3000

MARS HYDRO FC-E3000 300W LED Grow Light Instruction Manual

1. Introduction

Thank you for choosing the MARS HYDRO FC-E3000 300W LED Grow Light. This manual provides essential information for the safe and efficient operation of your new grow light. Please read these instructions thoroughly before installation and use, and retain them for future reference.

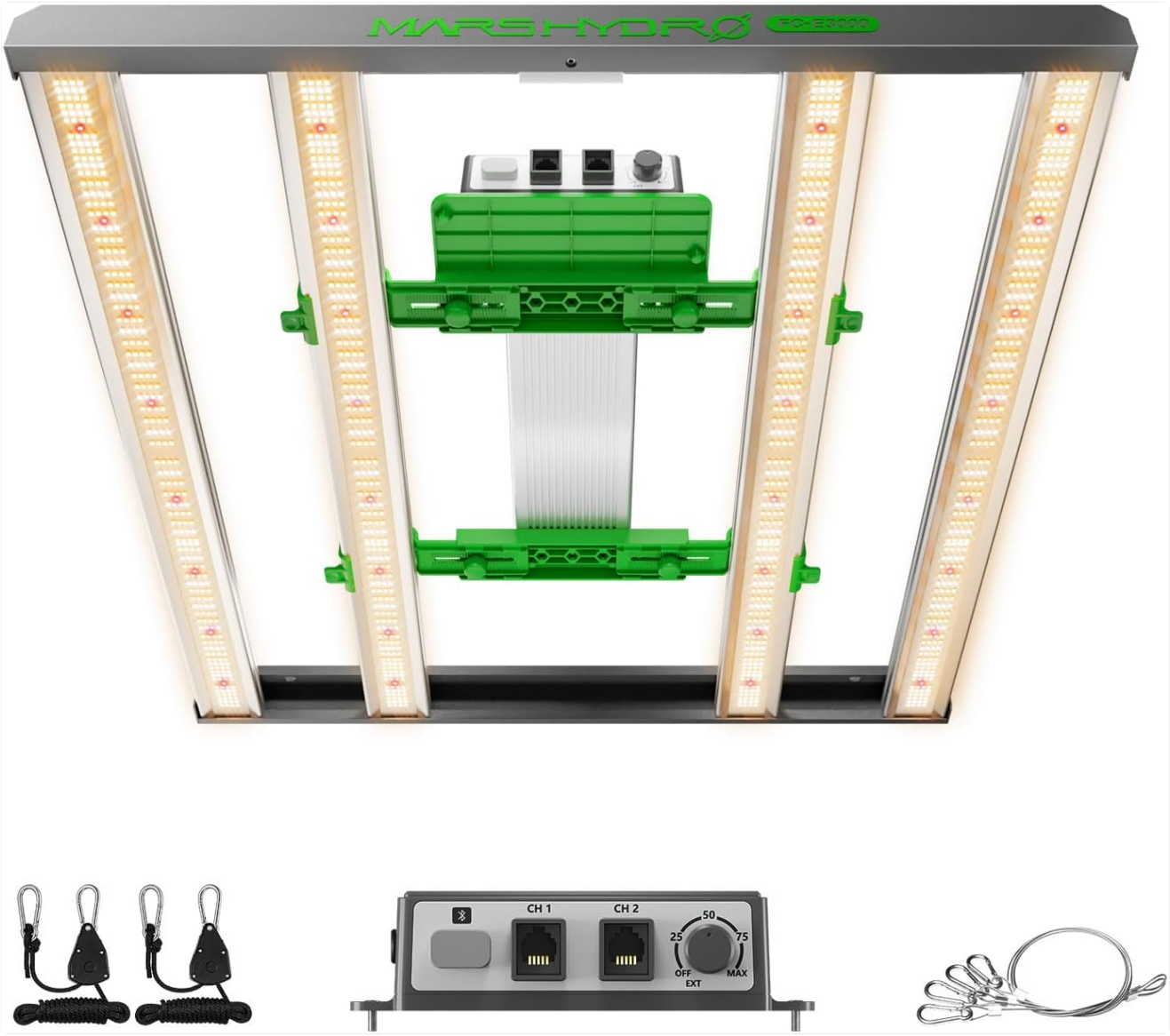

Image 1.1: The MARS HYDRO FC-E3000 300W LED Grow Light with its driver and hanging accessories.

2. Safety Information

- Always disconnect power before installation, maintenance, or moving the light.
- Do not look directly at the LED lights when they are operating.
- Ensure the light is installed in a well-ventilated area to prevent overheating.
- Keep the light away from water and other liquids. This product is IP65 waterproof, but direct exposure to water is not recommended.
- Do not attempt to modify or disassemble the light. This will void the warranty and may cause electrical hazards.
- Use only the provided power cord and accessories.
- Ensure the hanging system is securely fastened and can support the weight of the fixture.

3. Package Contents

Verify that all components are present in your package:

- 1 x MARS HYDRO FC-E3000 LED Grow Light Fixture
- 1 x LED Driver

- 1 x Hanging Kits (Rope hangers, wire hangers)
- 1 x User Manual (This document)

Image 3.1: Illustration of the MARS HYDRO FC-E3000 package contents, including the light fixture, LED driver, hanging kits, and user manual.

4. Product Overview

4.1 High-Efficiency LED Grow Light

The FC-E3000 features 1184 BridgeLux Diodes, offering a market-leading 2.8 µmol/J PPE. It is designed for optimal plant growth with a 300 Watt power consumption, suitable for a 3x3ft personal grow area or a 2.5x2.5ft commercial grow area.

4.2 Integrated & 2-in-1 Design

This model features an integrated design, simplifying installation. It includes both smart and regular lighting modes. Smart features require the iConnectu Controller, sold separately, which enables remote monitoring and control via the MARS HYDRO App.

4.3 Precise Uniform Lighting

The bar-style design ensures even light distribution, promoting uniform plant growth and preventing hotspots. Dimmability allows for dynamic PPFD control across all plant growth stages.

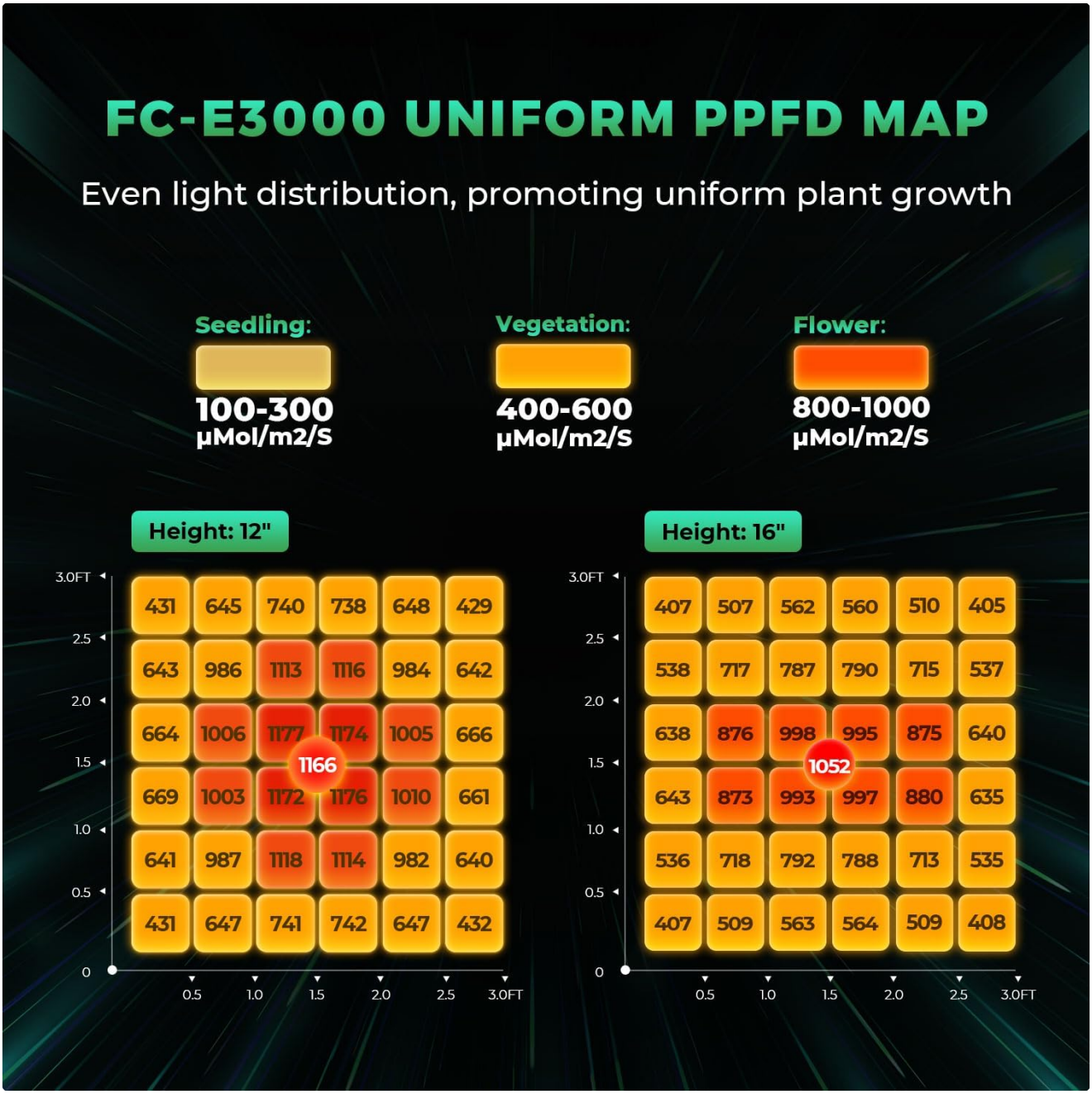

Image 4.1: PPFD (Photosynthetic Photon Flux Density) map illustrating light distribution at 12 and 16 inches height for different growth stages.

4.4 Dimmable & Daisy Chain Functionality

The light offers easy dimming and can be daisy-chained with up to 20 other lights, allowing a single master light to control multiple units. It is IP65 waterproof, suitable for various grow environments.

Image 4.2: The dimming control unit and an illustration of multiple FC-E3000 lights connected in a daisy chain configuration.

4.5 Superior Heat Dissipation

Equipped with a real aluminum heatsink and four slim-profile passive cooled bars, the FC-E3000 effectively reduces heat, maintaining optimal temperatures in your growing space and contributing to energy efficiency.

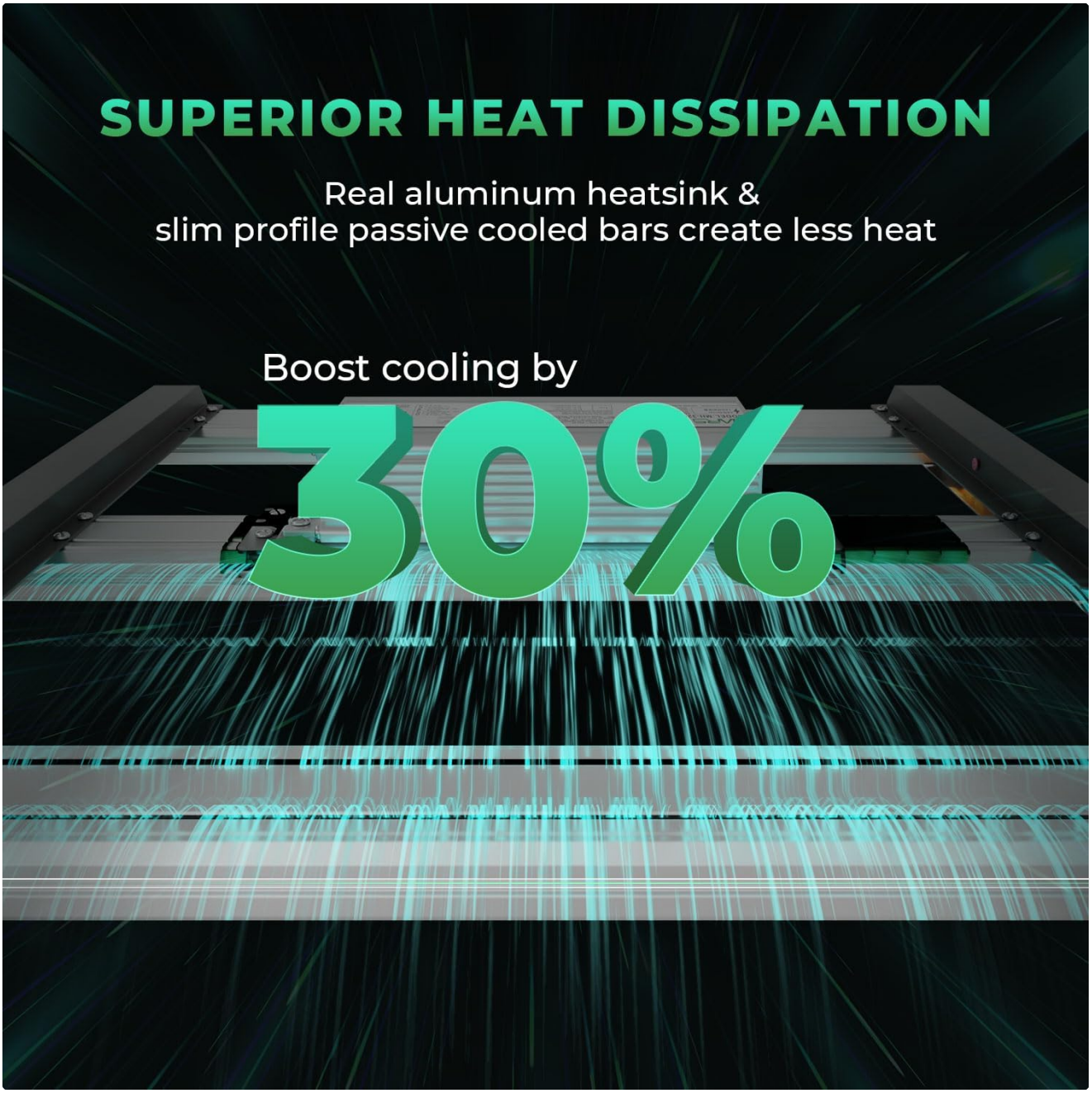

Image 4.3: Visual representation of the heat dissipation technology, highlighting the aluminum heatsink and cooled bars.

4.6 Full Spectrum Grow Light

The FC-E3000 utilizes a Yield Max spectrum with enhanced 660nm Deep Red and 2800k-5000k LEDs, providing a professional customized spectrum to boost crop yield and quality throughout all growth phases.

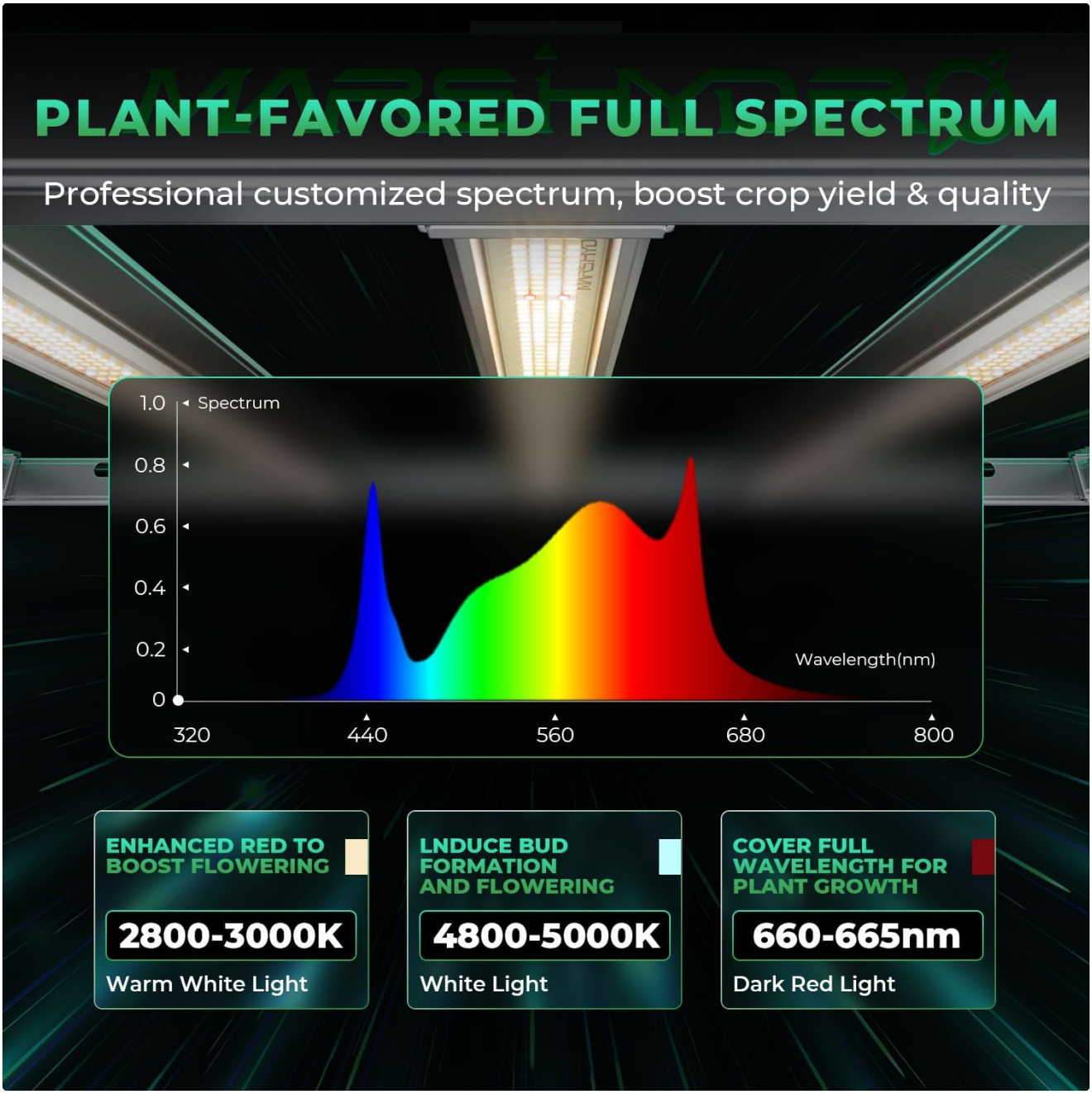

Image 4.4: Graph illustrating the full spectrum output, including enhanced red for flowering, white light for bud formation, and dark red light for full wavelength coverage.

5. Setup and Installation

5.1 Assembly

1. Carefully unpack all components from the box.
2. Connect the LED driver to the main light fixture. Ensure the connectors are securely fastened.
3. Attach the hanging kits to the designated points on the light fixture.

5.2 Mounting

1. Identify a suitable location for mounting the light, ensuring it is stable and can support the fixture's weight.
2. Use the provided rope hangers or wire hangers to suspend the light at the desired height above your plants.
3. Adjust the height as needed for different growth stages (refer to PPFD map in Section 4.3 for guidance).

Image 5.1: An example of the FC-E3000 installed within a 3x3ft grow tent, demonstrating a typical home grow application.

6. Operation

6.1 Power Connection

Plug the power cord into the LED driver, then connect it to a standard 120V electrical outlet.

6.2 Dimming Control

The FC-E3000 features a dimmer knob on the LED driver. Rotate the knob to adjust the light intensity from 0% to 100% according to your plants' needs and growth stage.

6.3 Daisy Chain Function

To connect multiple FC-E3000 lights, use the provided daisy chain cables to link them. The dimmer on the master light will control all connected fixtures.

6.4 Smart Control (Optional)

For advanced control and monitoring, the MARS HYDRO iConnectu Controller (sold separately) can be connected

to the LED driver. This WiFi/Bluetooth-enabled controller allows you to manage the light remotely via the MARS HYDRO App, set schedules, and utilize professional grow recipe settings.

Image 6.1: The LED driver with an optional iConnectu USB module for app-based dimming and control, shown with a smartphone displaying the MARS HYDRO App interface.

7. Maintenance

- **Cleaning:** Ensure the light is unplugged and cool before cleaning. Gently wipe the LED bars and driver with a soft, dry cloth to remove dust and debris. Do not use harsh chemicals or abrasive materials.
- **Inspection:** Periodically inspect the power cord, connectors, and hanging system for any signs of wear or damage. Replace any damaged components immediately.
- **Ventilation:** Ensure adequate airflow around the fixture to maintain optimal operating temperatures and prolong the lifespan of the LEDs.

8. Troubleshooting

- **Light not turning on:**
  - Check if the power cord is securely plugged into both the light and the electrical outlet.
  - Verify that the outlet is functional by plugging in another device.
  - Ensure the dimmer knob is not set to 'OFF' or minimum intensity.
- **Light flickering or dimming unexpectedly:**
  - Check all connections between the light fixture and the driver.
  - Ensure the power supply is stable and not overloaded.
  - If using daisy chain, check connections between all lights.
- **App control issues:**
  - Ensure the iConnectu Controller is properly connected and powered.
  - Verify your device's Bluetooth/WiFi connection and the MARS HYDRO App are up to date.
  - Refer to the iConnectu Controller's specific manual for detailed troubleshooting.

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

9. Specifications

Feature	Specification
Model	FC-E3000
Power Consumption	300 Watts
PPE	2.8 µmol/J
LED Type	BridgeLux Diodes (1184 pcs)
Coverage (Personal Grow)	3x3 ft
Coverage (Commercial Grow)	2.5x2.5 ft
Spectrum	Full Spectrum (660nm Deep Red, 2800k-5000k)
Dimming	Yes, 0-100%
Daisy Chain	Up to 20 lights
Waterproof Rating	IP65
Voltage	120 Volts
Brightness	52971 Lumens
Amperage	1.08 Amps
Product Dimensions	23.4"L x 21.2"W x 2.4"H
Material	Aluminum, Metal
Item Weight	0.088 ounces (Fixture only, excluding driver/accessories)

10. Warranty and Support

MARS HYDRO products are designed for durability and performance. For specific warranty details, 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 installation, or need to report a defect, please contact MARS HYDRO customer support through their official channels.

For the latest information and support, please visit:MARS HYDRO Official Store

Related Documents - FC-E3000

	Mars Hydro FC-E Series LED Grow Lights User Manual - Optimize Your Indoor Garden Comprehensive user manual for Mars Hydro FC-E Series LED Grow Lights, including models FC-E1500, FC-E3000, FC-E4000, FC-E4800, FC-E6500, FC-E8000, FC-E1000W, and FC-E1200W. Learn about installation, operation, safety, and maintenance for optimal plant growth.
	Mars Hydro Grow Tent User Manual: Installation, Specifications, and Warranty Comprehensive user manual for Mars Hydro grow tents and LED grow lights, covering installation, product contents, specifications, dimming operation, fan sets, and warranty information.
	Mars Hydro Grow Tent User Manual Comprehensive user manual for Mars Hydro Grow Tents, detailing key features, specifications, assembly instructions, and warranty information.
	Mars Hydro FC Series User Manual User manual for Mars Hydro FC Series LED grow lights, detailing specifications, assembly, operation, dimming, daisy-chaining, and warranty for models FC-3000, FC-4000, FC-4800, FC-6500, FC-8000, and FC-1000W.
	Mars Hydro FC Series LED Grow Light User Manual 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.
	Mars Hydro TS Series LED Grow Light User Manual Comprehensive user manual for the Mars Hydro TS Series LED grow lights, covering specifications, installation, dimming, daisy chain operation, and warranty information.

[pdf] User Manual Instructions Specifications Dimension Guide

VG Mars Hydro VG80 User Manual T5 LED Grow Light Bar Pack of 2 Bars Lights vg series led user manual hydrobuilder media instructions |||

USER MANUAL SPECIFICATIONS CONTENTS AC Power Cord Model VG80 Length Adjusters 4 only for VG ... to the hook on the light bar. b Note: It is recommended to hang VG40-R horizontally next to FC3000/**FC-E3000** /FC4800/FC-E4800. Hang the lamp on the pole using the hook of the hanging rope. 04 VG40-...

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[pdf] User Manual Installation Guide Frequently Asked Questions Warranty

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Mars Hydro Grow Tent User Manual: Installation, Specifications, and Warranty

Comprehensive user manual for Mars Hydro grow tents and LED grow lights, covering installation, product contents, specifications, dimming operation, fan sets, and warranty information.

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