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MARS HYDRO FC-E1500

MARS HYDRO FC-E1500 LED Grow Light Instruction Manual

Model: FC-E1500

1. INTRODUCTION

The MARS HYDRO FC-E1500 is a high-efficiency 150-watt LED grow light designed for indoor plant cultivation. Featuring BridgeLux Diodes and a full spectrum output, it is engineered to promote optimal plant growth from seedling to flowering stages. Its innovative bar-style design ensures uniform light distribution, while dimmable and daisy-chain capabilities offer flexible control for various grow setups.

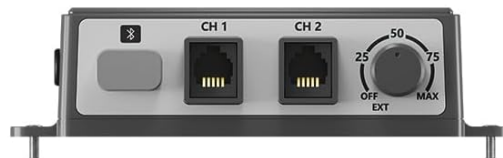


Figure 1: MARS HYDRO FC-E1500 LED Grow Light

2. PRODUCT FEATURES

- **High-Efficiency LED Grow Light:** Equipped with 639pcs BridgeLux Diodes, offering 2.8 $\mu\text{mol}/\text{J}$ PPE for cost-effective and high-yield cultivation. Ideal for 2.5x2.5ft personal grows or 2x2ft commercial setups.
- **Innovative Precise Uniform Lighting:** Bar-style design ensures even light distribution, preventing hotspots and promoting uniform plant growth.
- **Dimmable & Daisy Chain Functionality:** Easy dimming control and ability to daisy chain up to 20 lights, making it suitable for high-performance commercial applications. IP65 Waterproof for durability.
- **Full Spectrum Grow Light:** Features Yield Max spectrum (665nm enhanced Deep Red, 2800k-5000k, 660-665nm, 4800-5000nm LEDs) for all growth stages.
- **Superior Heat Dissipation:** Real aluminum heatsink and slim profile passive cooled bars reduce heat by 30% compared to other lights, ensuring optimal performance and longevity.
- **Smart Control Ready:** Compatible with Mars Hydro iConnect-USB (sold separately) for app-based control and monitoring.

PLANT-FAVORED FULL SPECTRUM

Professional customized spectrum, boost crop yield & quality

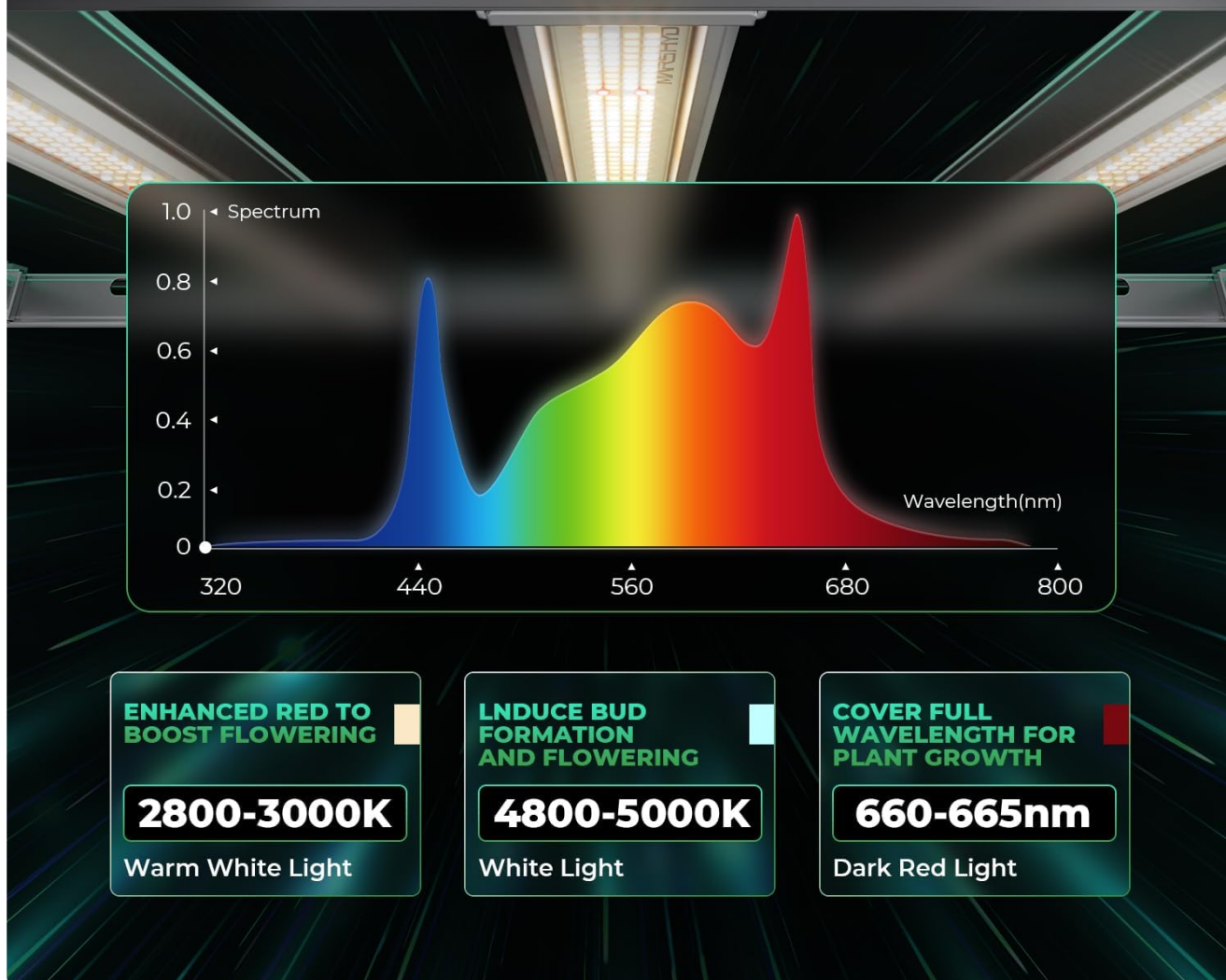


Figure 2: Plant-Favored Full Spectrum Output

SUPERIOR HEAT DISSIPATION

Real aluminum heatsink &
slim profile passive cooled bars create less heat

Boost cooling by

30%

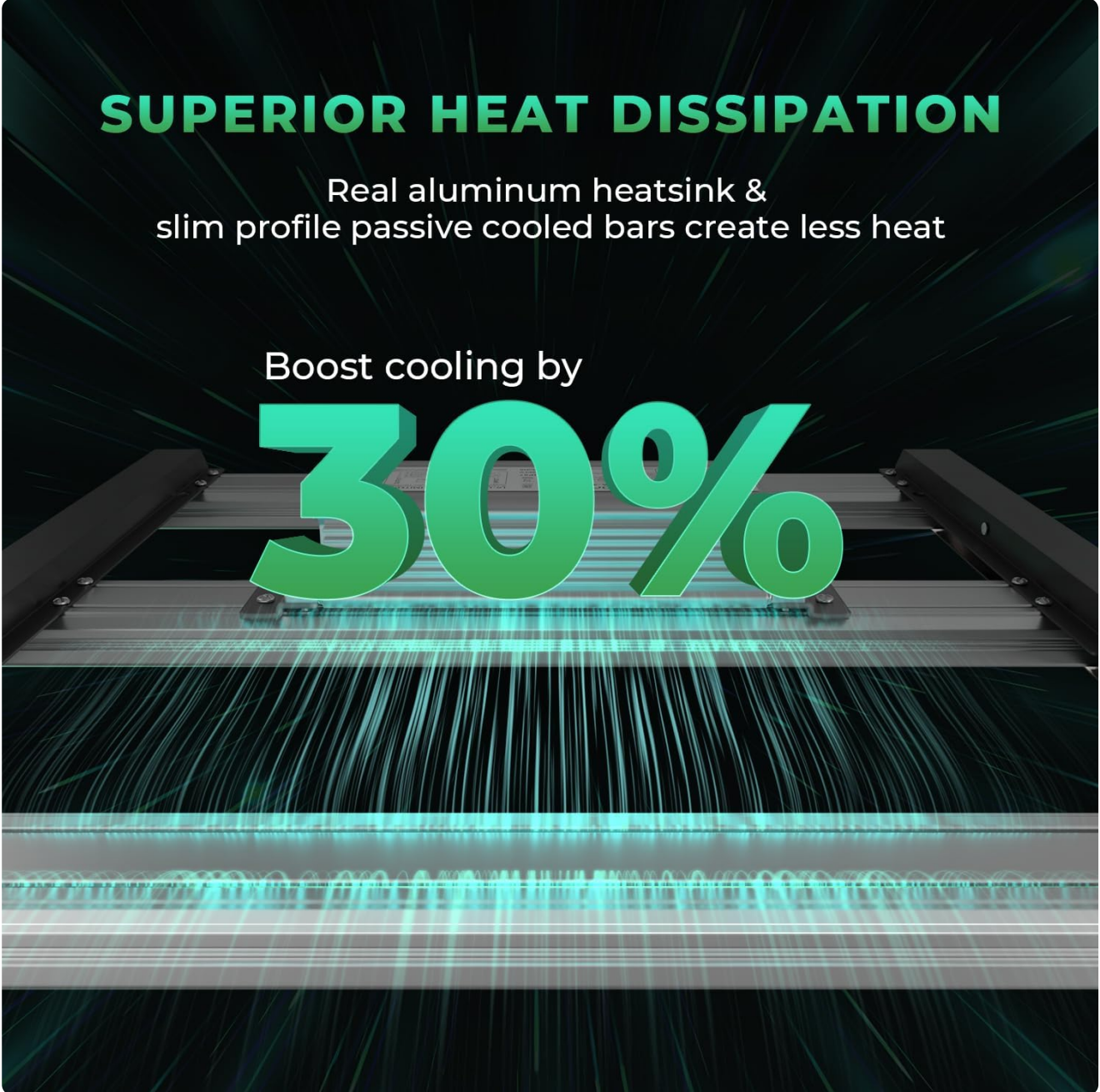


Figure 3: Advanced Heat Dissipation Design

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- 1 x FC-E1500 LED Grow Light Fixture
- 1 x LED Driver
- 1 x Hanging Kits (Rope Ratchets)
- 1 x Suspension Kit (Steel Cables)
- 1 x User Manual



Figure 4: Contents of the FC-E1500 Package

4. SETUP & INSTALLATION

4.1 Assembly

The FC-E1500 features an innovative folding design for easy installation. Unfold the light fixture carefully from its packaging.

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Video 1: MARS HYDRO FC-E1500 Unboxing and Initial Assembly

4.2 Hanging the Light

Attach the provided hanging kits (rope ratchets and steel cables) to the designated points on the light fixture. Securely hang the light within your grow tent or designated grow area, ensuring it is level and stable.

HOME GROW APPLICATIONS



Figure 5: FC-E1500 installed in a grow tent

5. OPERATING INSTRUCTIONS

5.1 Dimming Control

The FC-E1500 offers two methods for dimming:

- **Manual Dimmer Knob:** Use the integrated dimmer knob on the light fixture to adjust light intensity from 0% to 100%.
- **App Dimming Control:** For remote control and advanced scheduling, connect the optional Mars Hydro iConnect-USB module (sold separately) to the USB port on the light. Download the Mars Hydro app to control and monitor your grow.

UPGRADED DIMMER KNOB

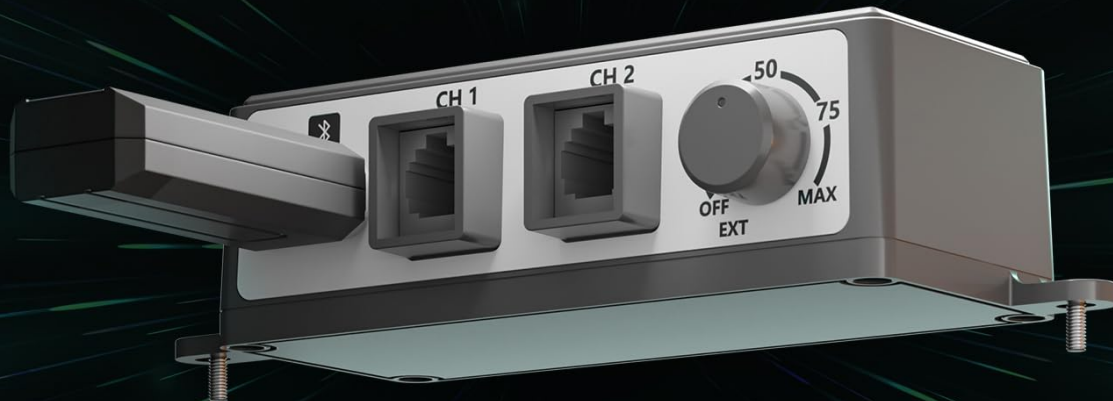
Easy to operate, precise control of light



Figure 6: Dimmer Knob and Control Panel

APP DIMMING CONTROL

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



iConnect-USB is not included and must be purchased separately

Figure 7: App Dimming Control via iConnect-USB (sold separately)

5.2 Daisy Chain Functionality

Connect multiple FC-E1500 lights using the provided daisy chain cables. Up to 20 lights can be linked and controlled simultaneously from a single master light.

DIMMING CONTROL & DAISY CHAIN

Up to 30 FC1500 lights can be connected



Figure 8: Daisy Chain Setup for Multiple Lights

5.3 Recommended Settings for Growth Stages

Adjust light intensity and height based on your plant's growth stage for optimal results:

Growth Stage	Required PPFD	Height	Dimming	Working Time
Seeding Stage	200	10"	25%	18H ON
Vegetative Stage	400	10"	75%	18H ON
Flowering Stage	600	10"	100%	12H ON

Table 1: Recommended Light Settings per Growth Stage

FC-E1500 UNIFORM PPFD MAP

Even light distribution, promoting uniform plant growth

Seedling:



100-300
 $\mu\text{Mol}/\text{m}^2/\text{S}$

Vegetation:



400-600
 $\mu\text{Mol}/\text{m}^2/\text{S}$

Flower:



800-1000
 $\mu\text{Mol}/\text{m}^2/\text{S}$



Figure 9: PPFD Distribution Map for FC-E1500

5.4 Supplemental Lights (ADLITE)

The FC-E series supports ADLITE supplemental lights (UV, IR, Deep Red) to further enhance plant quality and yield. These are sold separately and can be easily integrated.

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Video 2: MARS HYDRO FC-E Series with ADLITE Supplemental Lights

6. MAINTENANCE

To ensure the longevity and optimal performance of your FC-E1500 grow light, follow these maintenance guidelines:

- **Cleaning:** Regularly wipe down the light bars and driver with a soft, dry cloth to remove dust and debris. Ensure the light is unplugged before cleaning.
- **Ventilation:** Ensure adequate airflow around the light fixture to support its passive cooling system.
- **Inspection:** Periodically check all cables and connections for any signs of wear or damage.

7. TROUBLESHOOTING

If you encounter any issues with your FC-E1500, refer to the following common troubleshooting tips:

- **Light Not Turning On:**

- Check if the power cord is securely plugged into both the light driver and the power outlet.
- Ensure the dimmer knob is not set to "OFF".
- Verify the power outlet is functional.

- **Dimming Not Working:**

- Ensure the dimmer knob is properly engaged and rotated.
- If using the iConnect-USB, check app connection and module functionality.

- **Uneven Light Distribution:**

- Verify the light fixture is hung level.
- Ensure no obstructions are blocking light paths.

For further assistance, please contact MARS HYDRO customer support.

8. SPECIFICATIONS

Specification	Value
Model	FC-E1500
Power Draw	150W±5% @AC100-277V
Number of LED Diodes	639
Efficiency	2.80 µmol/J
Core Coverage	2FT*2FT / 60x60CM
Max Coverage	3FT*3FT / 90x90CM
Dimensions	16.4"L x 15.7"W x 2.8"H (41.7*40*7.2CM)
Item Weight	8.28 pounds (2.8KG)
Voltage	100-277 Volts (AC)
Light Source Type	LED
Material	Aluminum
Finish Type	Powder Coated
Power Source	Corded Electric

Table 2: Technical Specifications

9. WARRANTY & SUPPORT

For detailed warranty information, product registration, or technical support, please refer to the official MARS HYDRO website or contact their customer service directly. Keep your purchase receipt for warranty claims.

MARS HYDRO Official Store: Visit Store

