

MARS HYDRO TS 1000

MARS HYDRO TS1000 150W LED Grow Light User Manual

Model: TS 1000 | Brand: MARS HYDRO

1. INTRODUCTION

Thank you for choosing the MARS HYDRO TS1000 LED Grow Light. This manual provides essential information for the proper setup, operation, and maintenance of your new grow light. The TS1000 is designed to provide a full spectrum light for indoor plants, supporting all growth stages from seedling to bloom, with features like dimmability and daisy chain capability.

Key features include a highly-reflective hood design, new diode layout for uniform light, low energy consumption, and a sunlike full spectrum output.

2. PACKAGE CONTENTS & SETUP

Before installation, please ensure all components are present and undamaged. The package should contain the following:

- 1 x TS1000 LED Grow Light Unit
- 1 x Power Cord
- 1 x Rope Hanger
- 1 x Hanging Kits
- 1 x User Manual (this document)



Figure 1: MARS HYDRO TS1000 LED Grow Light with included accessories. This image displays the MARS HYDRO TS1000 LED Grow Light unit along with its essential accessories, including the power cord, rope hanger, and hanging kits, which are all provided for easy setup.

2.1. Installation Steps

1. Attach the hanging kits to the designated points on the top of the grow light unit.
2. Securely hang the light using the rope hanger in your grow tent or desired space. Ensure the light is level and stable.
3. Connect the power cord to the light unit and then to a suitable power outlet (120VAC, 240VAC, or 277VAC compatible).

2.2. Daisy Chain Setup

The TS1000 supports daisy chaining, allowing you to connect and control up to 50 LED lights from a single power source. This is ideal for larger grow operations.

TS LED OPTIMIZED FULL SPECTRUM

A rich red spectrum boosts plant flowering and harvests

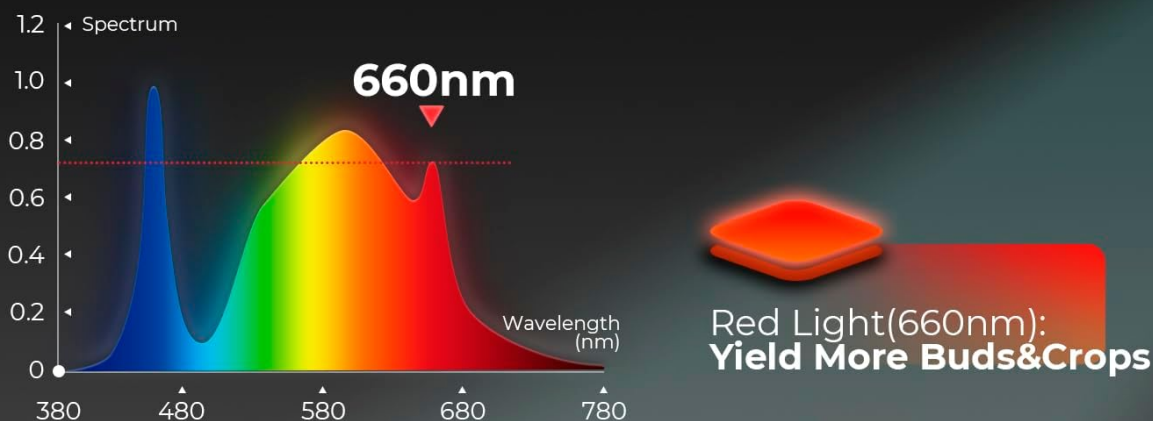


Figure 2: Daisy Chain Configuration. This diagram illustrates how multiple MARS HYDRO grow lights can be connected in a daisy chain setup, allowing up to 50 units to be controlled from a single power source, ideal for larger grow operations.

Video 1: Customized Plant Growing System Kit. This video demonstrates the flexibility of the MARS HYDRO grow light system, showing how it can be customized for various plant growing setups and sizes.

Video 2: TS1000 LED Grow Lights Overview. An overview video showcasing the features and benefits of the TS1000 LED Grow Lights by MARS HYDRO.

3. OPERATING INSTRUCTIONS

3.1. Dimming Operation

The TS1000 features an independent dimming button and knob on the external driver, allowing for precise control of light intensity from 0-100%.

TS 1000 PPFD MAP

Unlock the Full Potential of Your Plants
with Higher Root Penetration

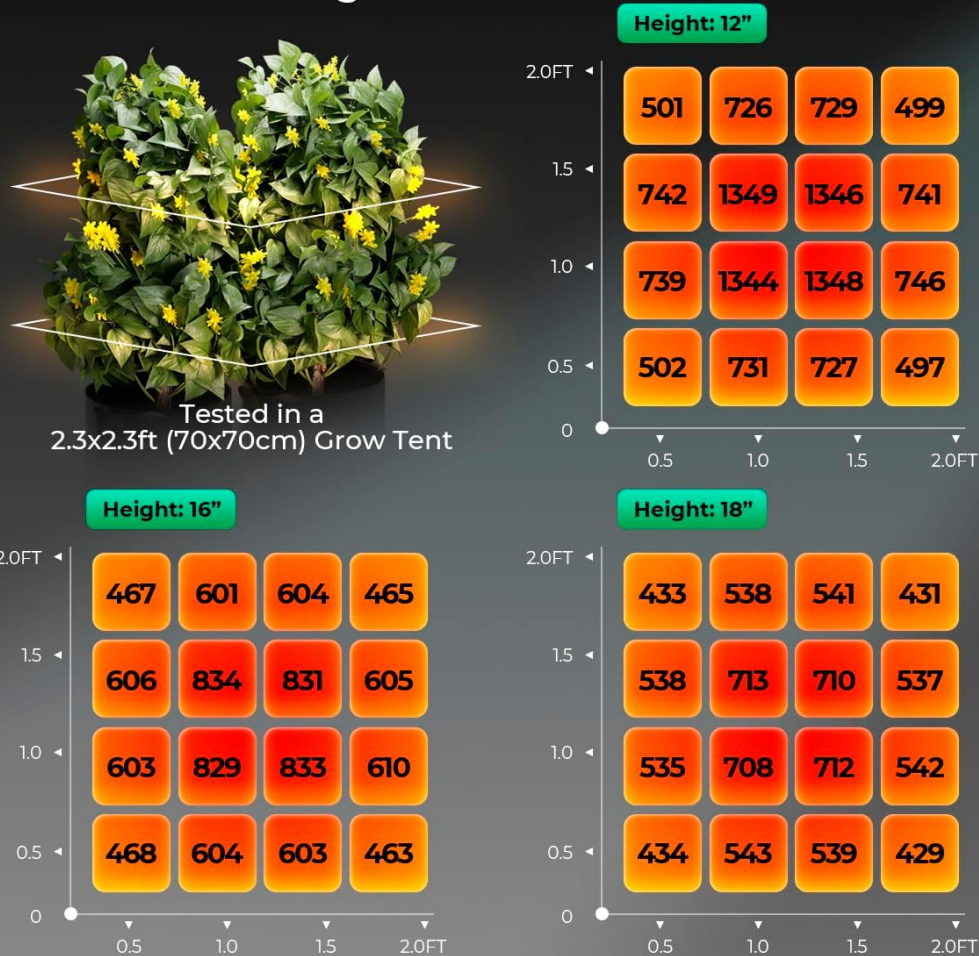


Figure 3: Dimming Control Panel. This image highlights the dimming control panel of the TS1000, featuring a dimmer button to switch between dimming on/off and a knob for adjusting light intensity from 10% to 100%.

3.2. Full Spectrum Light

The TS1000 provides a sunlike full spectrum (730-740nm Red IR/3200-4200Knm/5200-6800Knm) optimized for all plant stages, promoting rapid growth and increased yield.

DISCREET PACKAGE

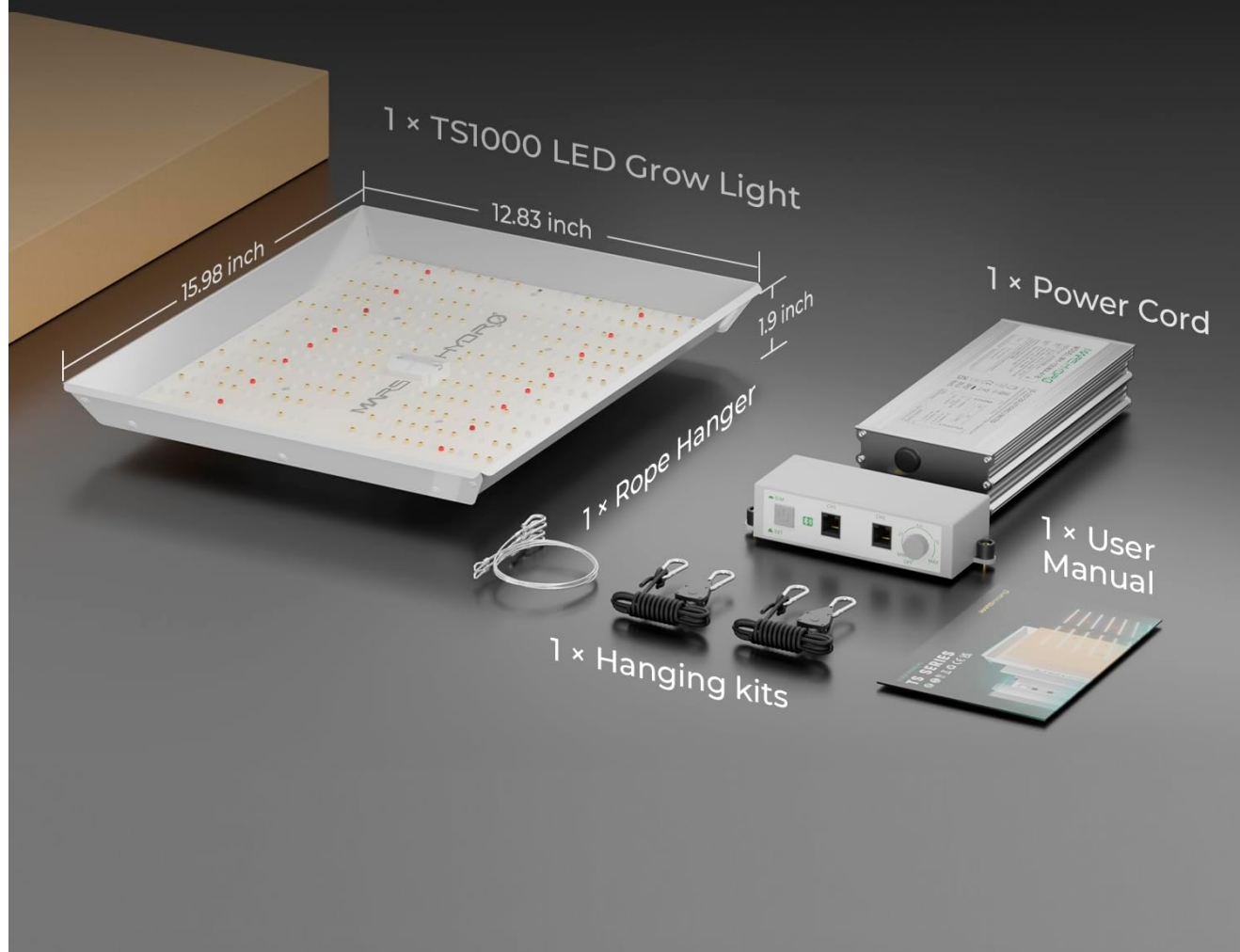


Figure 4: Sunlike Full Spectrum. This diagram visually represents the full spectrum light provided by the MARS HYDRO grow light, detailing the contribution of blue light for germination, IR light for boosting yields, and red light for encouraging budding and flowering.

3.3. Recommended Hanging Height & Dimming Guide

Adjust the hanging height and dimming settings according to your plant's growth stage for optimal results. The recommended footprint for the TS1000 is 2.3'x2.3'.

Stage	Hang Height	Dimmer Setting	Intensity (PPFD)
Seedling/Clone	12" (30cm)	25%	150-300 $\mu\text{mol.m}^2.\text{s}^{-1}$
Vegetative	12" (30cm)	75%	400-850 $\mu\text{mol.m}^2.\text{s}^{-1}$
Flowering	12" (30cm)	100%	500-1350 $\mu\text{mol.m}^2.\text{s}^{-1}$

DIMMING OPERATION

Effortlessly save energy by adjusting light intensity with the dimming knob

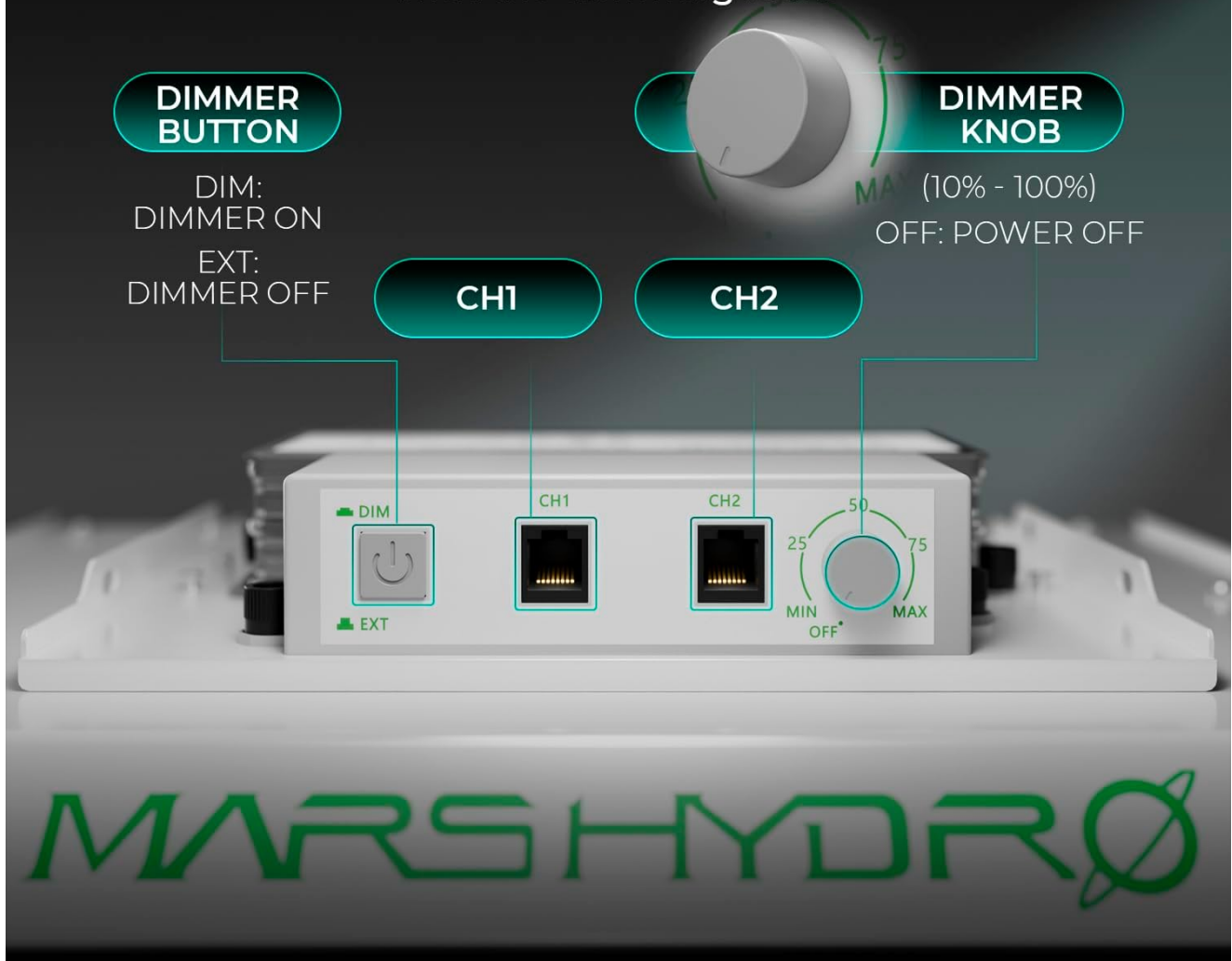


Figure 5: TS1000 PPFD Map. This PPFD (Photosynthetic Photon Flux Density) map provides data on light intensity distribution for the TS1000 at various hanging heights (12, 16, 18 inches), helping users optimize light placement for plant growth.

Video 3: Ideal Seedling to LED Light Distance. This short video from MARS HYDRO provides guidance on the optimal distance to hang the TS1000 LED grow light above seedlings for healthy growth.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your MARS HYDRO TS1000 grow light.

4.1. Cleaning

- Ensure the light is unplugged and cool before cleaning.
- Gently wipe the reflector and LED board with a soft, dry cloth to remove dust and debris. Avoid using abrasive cleaners or solvents.

4.2. Heat Dissipation

The TS1000 features a fanless design and a detachable driver to minimize heat in your grow space. The driver can be placed outside the tent to reduce heat by up to 30%.



Figure 6: Detachable Driver for Heat Management. This image shows the detachable driver and extended power cords, emphasizing the design feature that allows the driver to be placed outside the grow space, reducing heat by up to 30%.

5. TROUBLESHOOTING

If you encounter issues with your TS1000 grow light, please refer to the following common troubleshooting tips:

- **Light Not Turning On:** Check if the power cord is securely connected to both the light and the power outlet. Ensure the dimmer knob is not set to 'OFF' or 0%. Test the outlet with another device.
- **Dimming Malfunction:** Verify the dimmer button is set to 'DIM' (on). If daisy chaining, ensure all connections are secure.
- **Uneven Light Distribution:** Ensure the light is hung level and at the recommended height for your plant

stage.

- **Overheating:** Confirm adequate ventilation in your grow space. If the driver is inside the tent, consider detaching it and placing it outside.

For persistent issues or technical support, please contact MARS HYDRO customer service.

6. SPECIFICATIONS

Feature	Specification
Brand	MARS HYDRO
Model	TS 1000
Wattage	150 watts
Light Source Type	LED
Voltage	220 Volts (compatible with 120VAC, 240VAC, 277VAC)
Product Dimensions	14.2"L x 13.2"W x 1.4"H
Item Weight	3.74 pounds (1.7 Kilograms)
Brightness	22216 Lumen
Special Feature	Energy Efficient, Dimmable
Indoor/Outdoor Usage	Indoor
Material	Aluminum
Water Resistance Level	Waterproof

7. SAFETY INFORMATION

- Always unplug the light before moving, cleaning, or performing any maintenance.
- Do not look directly at the LED lights when they are on, as this may cause eye strain or damage.
- Ensure proper ventilation in your grow area to prevent heat buildup.
- Keep the light away from water and moisture, despite its waterproof rating, to prevent electrical hazards.
- Do not attempt to modify or disassemble the light unit. This will void the warranty and may cause harm.

8. WARRANTY AND SUPPORT

MARS HYDRO products typically come with a manufacturer's warranty. Please refer to the product packaging or the official MARS HYDRO website for specific warranty terms and conditions for your TS1000 model.

For any questions, technical assistance, or warranty claims, please contact MARS HYDRO customer support through their official channels or the retailer where you purchased the product.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question