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› [Mammoth Lighting](#) /

› Mammoth Lighting Nova Sun Series LED Grow Light Instruction Manual (8 Bar / 950W / Spectrum Tuning)

Mammoth Lighting Nova 8 Bar/ 950w/Spec Tuning/44" x 44"

Mammoth Lighting Nova Sun Series LED Grow Light Instruction Manual

Model: Nova 8 Bar/ 950w/Spec Tuning/44" x 44"

Brand: Mammoth Lighting

INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Mammoth Lighting Nova Sun Series LED Grow Light. Please read all instructions carefully before installation and use. This model features 8 bars, 950W power, and 44" x 44" dimensions with spectrum tuning capabilities.

SAFETY INFORMATION

- Always disconnect power before installation, maintenance, or moving the fixture.
- Do not look directly into the LED lights when the fixture is operating. Eye protection is recommended.
- Ensure the fixture is securely mounted to prevent falling.
- Do not operate the fixture in wet or damp conditions. This product is designed for indoor use only.
- Maintain adequate ventilation around the fixture to prevent overheating.
- Use only the provided power cords and accessories.
- Keep out of reach of children.

WHAT'S IN THE BOX

Verify that all components are present before proceeding with installation:

- Mammoth Lighting Nova Sun Series LED Grow Light Fixture
- 120V Power Plug
- 240V Power Plug
- RJ Cords for Group Control
- Rope Ratchets for Hanging
- Standard Dimmer Knob

1. Unpacking and Inspection

Carefully remove the grow light from its packaging. Inspect the fixture for any signs of damage during transit. If any damage is found, contact customer support immediately.

2. Mounting the Fixture

The Nova Sun Series is designed for ceiling mount installation. Use the included rope ratchets to suspend the fixture securely from a sturdy support structure. Ensure the fixture is level and positioned at the desired height above your plant canopy.



Image: The Nova Sun Series LED grow light bars installed in a grow tent, showing the even light distribution.

3. Power Connection

Select the appropriate power plug (120V or 240V) for your electrical outlet. Connect the power cord to the fixture and then plug it into a grounded electrical outlet. Ensure the connection is secure.

4. Controller Connection (Optional)

For group control or advanced spectrum tuning, connect the RJ cords from the fixture to a compatible controller (not included unless specified). Refer to your controller's manual for specific connection instructions.

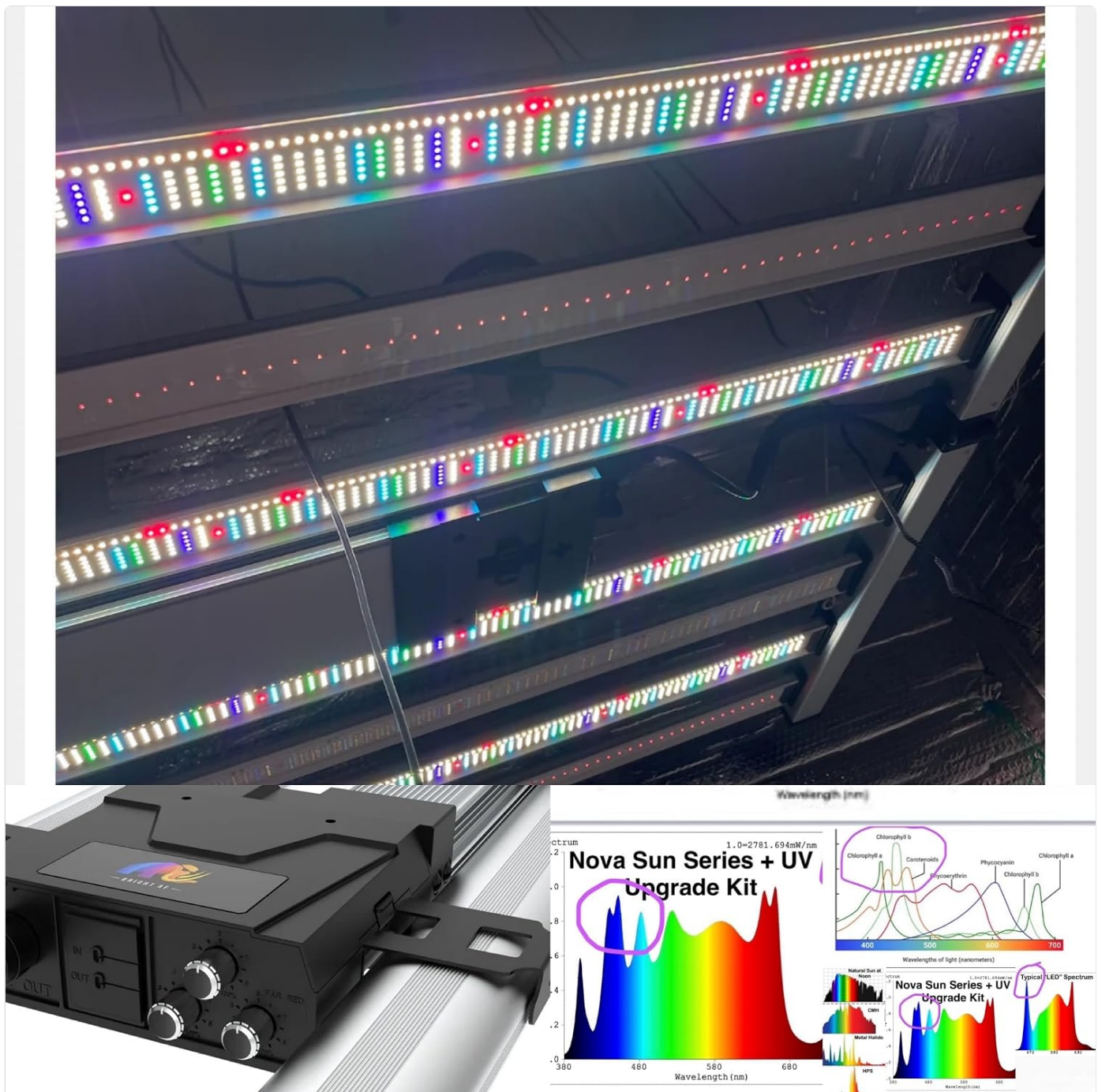


Image: A detailed view of the Nova Sun Series LED grow light's control unit and individual light bars, highlighting the modular design.

OPERATING INSTRUCTIONS

1. Powering On/Off

Once connected to power, the fixture will illuminate. To turn off, disconnect from the power source or use an external timer/controller.

2. Dimming Control

The included standard dimmer knob allows you to adjust the light intensity. Rotate the knob to increase or decrease the output. For precise control, especially with spectrum tuning models, an external controller is recommended.

3. Spectrum Tuning (for Spec Tuning models)

This 8 Bar/950W model features spectrum tuning. This allows adjustment of different light channels (e.g., Cool, Warm, Far Red, UV) to optimize the spectrum for specific growth stages or plant types. Refer to the specific tuning guide for your

model for detailed instructions on adjusting each channel. This feature helps mimic natural sunlight more closely.

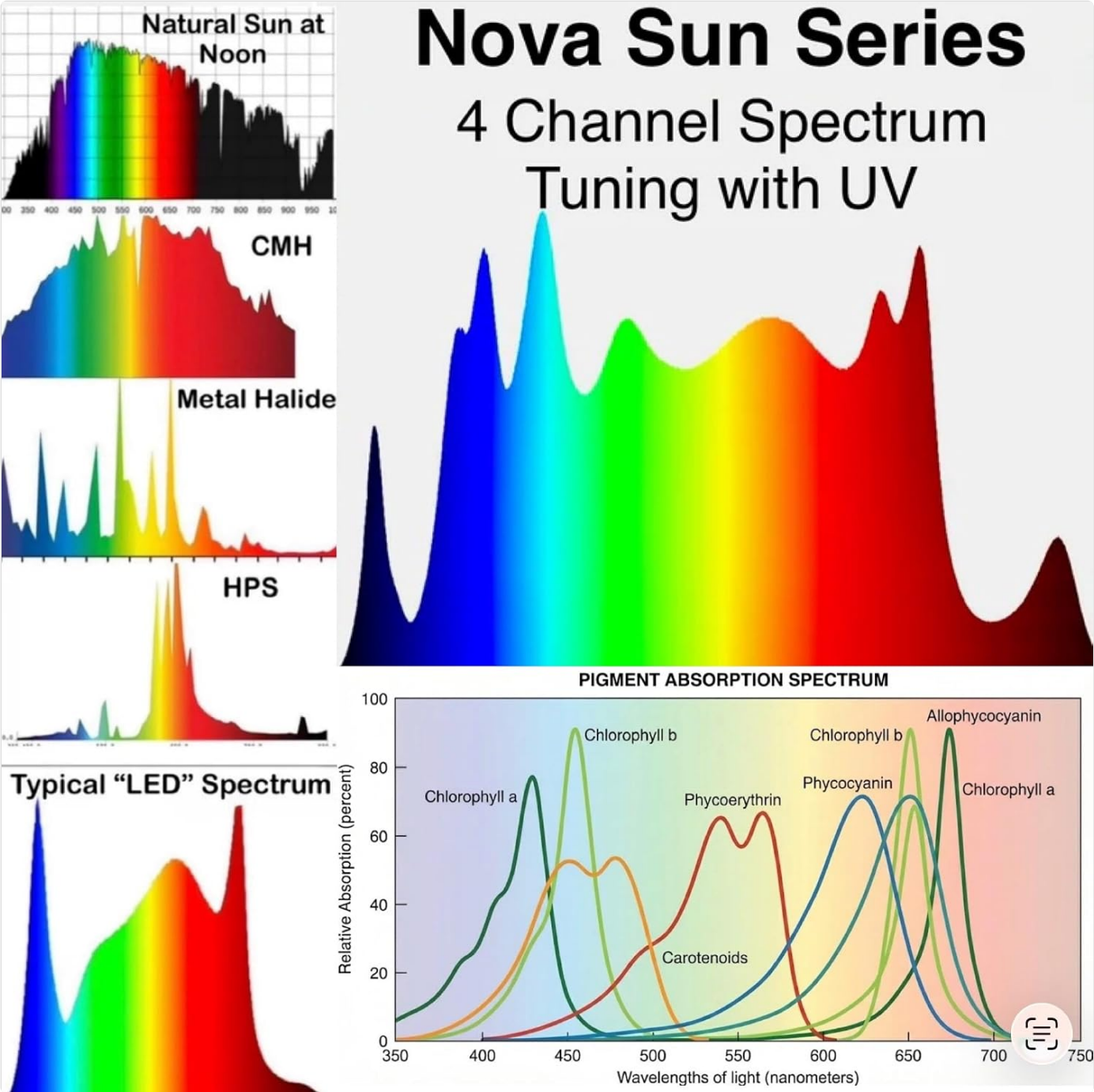


Image: A visual comparison of different light spectra, illustrating how the Nova Sun Series with 4-channel spectrum tuning and UV option provides a comprehensive light profile similar to natural sunlight and CMH.

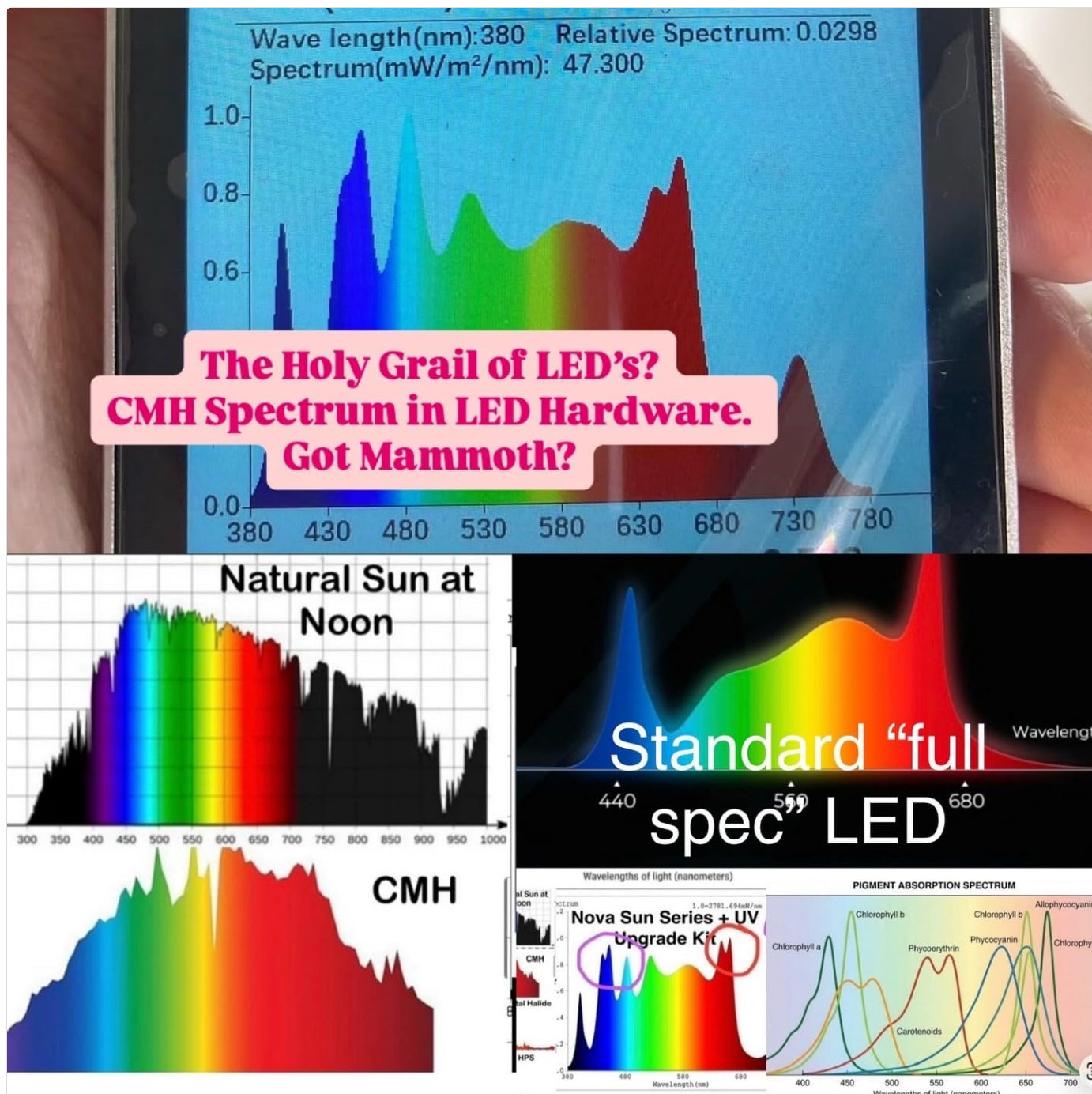


Image: A detailed spectrum analysis chart comparing natural sun, CMH, standard 'full spec' LED, and the Nova Sun Series + UV Upgrade Kit, demonstrating the advanced spectral output of the Nova Sun.

Let's Bring Nature Back!!

The Detour Effect:

Why Green Light Lets You Push PPFD Higher Without Stress and Higher Yields + Quality

- **Green light penetrates deeper into leaf tissue than red/blue**
- **Distributes light more evenly across the leaf = less stress**
- **Enables higher PPFD without photoinhibition**
- **Leads to improved photosynthesis and bigger yields**

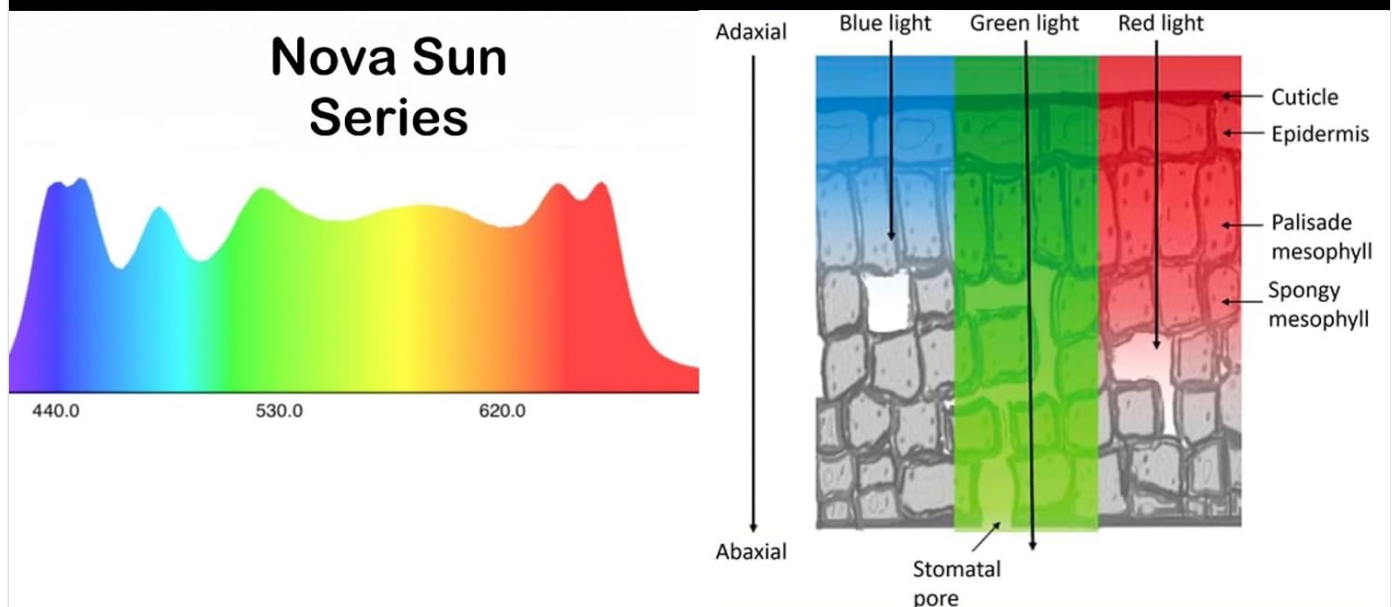


Image: An illustration demonstrating how green light penetrates deeper into leaf tissue compared to red and blue light, leading to improved photosynthesis and higher yields.

Got Dual Red Terp Boost?

99% of LED's do Not.

"White light with a **dual red peak at 640 and 660 nm**, compared to white light with a single red peak at 660 nm, **increased inflorescence yield** and light use efficiency, regardless of PPFD....at higher PPFD, white light with a dual red peak of **640 and 660 nm** compared to white light with a **single red peak at 660 nm** increased terpenoid concentrations." Front Plant Sci.

2024 Jun 18

Want more Terps?

Spectrum Matters

Chlorophyll Absorption with Dual Red and Blue Peaks

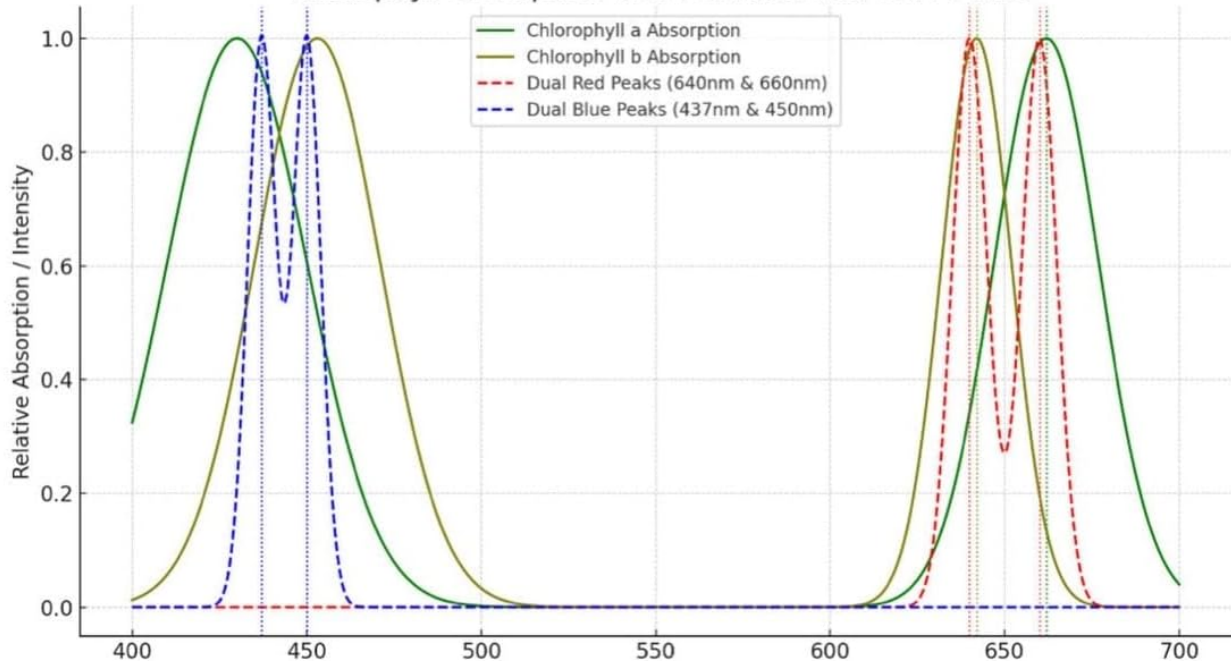


Image: A graph illustrating chlorophyll absorption with distinct dual red (640nm & 660nm) and blue (437nm & 450nm) peaks, highlighting the importance of specific wavelengths for plant growth.

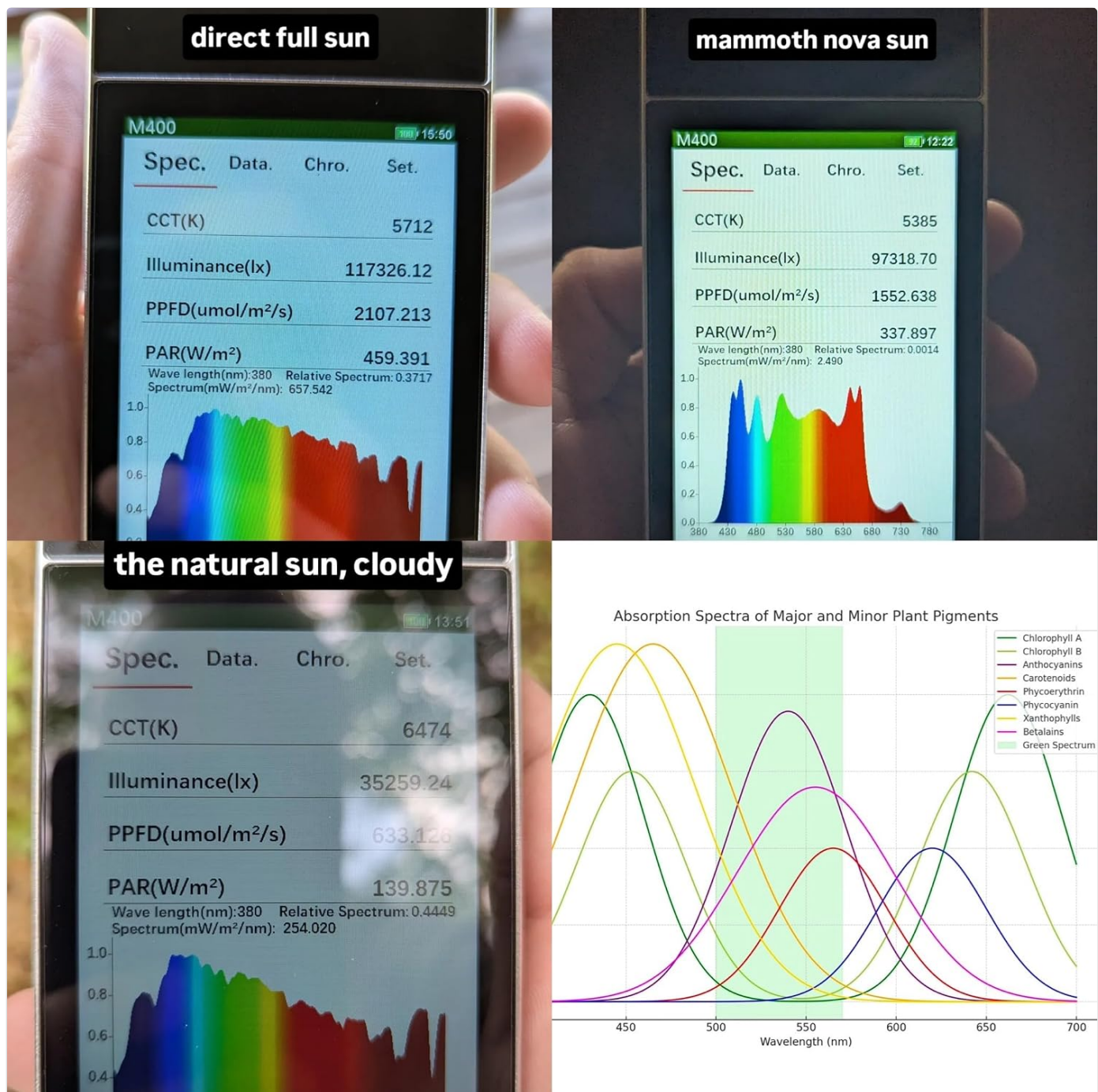


Image: Spectrometer readings displaying CCT(K), Illuminance(lx), PPFD(umol/m2/s), and PAR(W/m2) for direct full sun, natural sun on a cloudy day, and the Mammoth Nova Sun, demonstrating its spectral output.

MAINTENANCE

- **Cleaning:** Periodically clean the fixture's surface and LED bars with a soft, dry cloth to remove dust and debris. Do not use liquid cleaners directly on the LEDs.
- **Inspection:** Regularly check power cords and connections for any signs of wear or damage. Ensure all mounting hardware remains secure.
- **Ventilation:** Ensure that the passive cooling fins are not obstructed to maintain optimal operating temperature.

TROUBLESHOOTING

- **Light Not Turning On:**
 - Check if the power cord is securely plugged into both the fixture and the electrical outlet.

- Verify that the electrical outlet is functional by plugging in another device.
- Ensure the dimmer knob is not set to the minimum (off) position.

- **Dimming Not Working:**

- Ensure the dimmer knob is properly connected and functioning.
- If using an external controller, check its connections and settings.

- **Uneven Light Output:**

- Inspect individual LED bars for any visible damage.
- Ensure all modular connections between bars are secure.

If issues persist after troubleshooting, contact Mammoth Lighting customer support.

SPECIFICATIONS

Feature	Specification
Model Number	Nova
Power Source	120V + 240V plugs included
Wattage	950 watts
Light Source Type	Light Emitting Diode (LED)
Number of Light Sources	8 Bars
Dimensions (L x W x H)	44"L x 44"W x 4"H
Item Weight	25 pounds
Material	Aluminum
Finish Type	Silver
Mounting Type	Ceiling Mount
Special Features	Dimmable, Spectrum Tuning
Color Temperature	5300 Kelvin
Color Rendering Index (CRI)	90
Efficiency	Up to 2.8 µmol/J
Certification	ETL

WARRANTY

The Mammoth Lighting Nova Sun Series LED Grow Light comes with a **5-year limited warranty**. This warranty covers defects in materials and workmanship under normal use. For warranty claims or detailed terms and conditions, please contact Mammoth Lighting customer support.

SUPPORT

For technical assistance, troubleshooting not covered in this manual, or warranty inquiries, please contact Mammoth Lighting customer support through their official website or the retailer where the product was purchased.

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ASK A QUESTION ABOUT THIS MANUAL

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

Email

you@example.com

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