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## VIPARSPECTRA XS1000

# VIPARSPECTRA XS1000 LED Grow Light

## INSTRUCTION MANUAL

### Introduction

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The VIPARSPECTRA XS1000 LED Grow Light is designed to provide optimal lighting for indoor plants across all growth stages. Featuring Samsung LM301H diodes, this full-spectrum grow light offers high Photosynthetic Photon Flux Density (PPFD) and energy efficiency. It includes a dimmable function and daisy-chain capability for flexible setup in various growing environments, such as grow tents, greenhouses, and hydroponic systems.

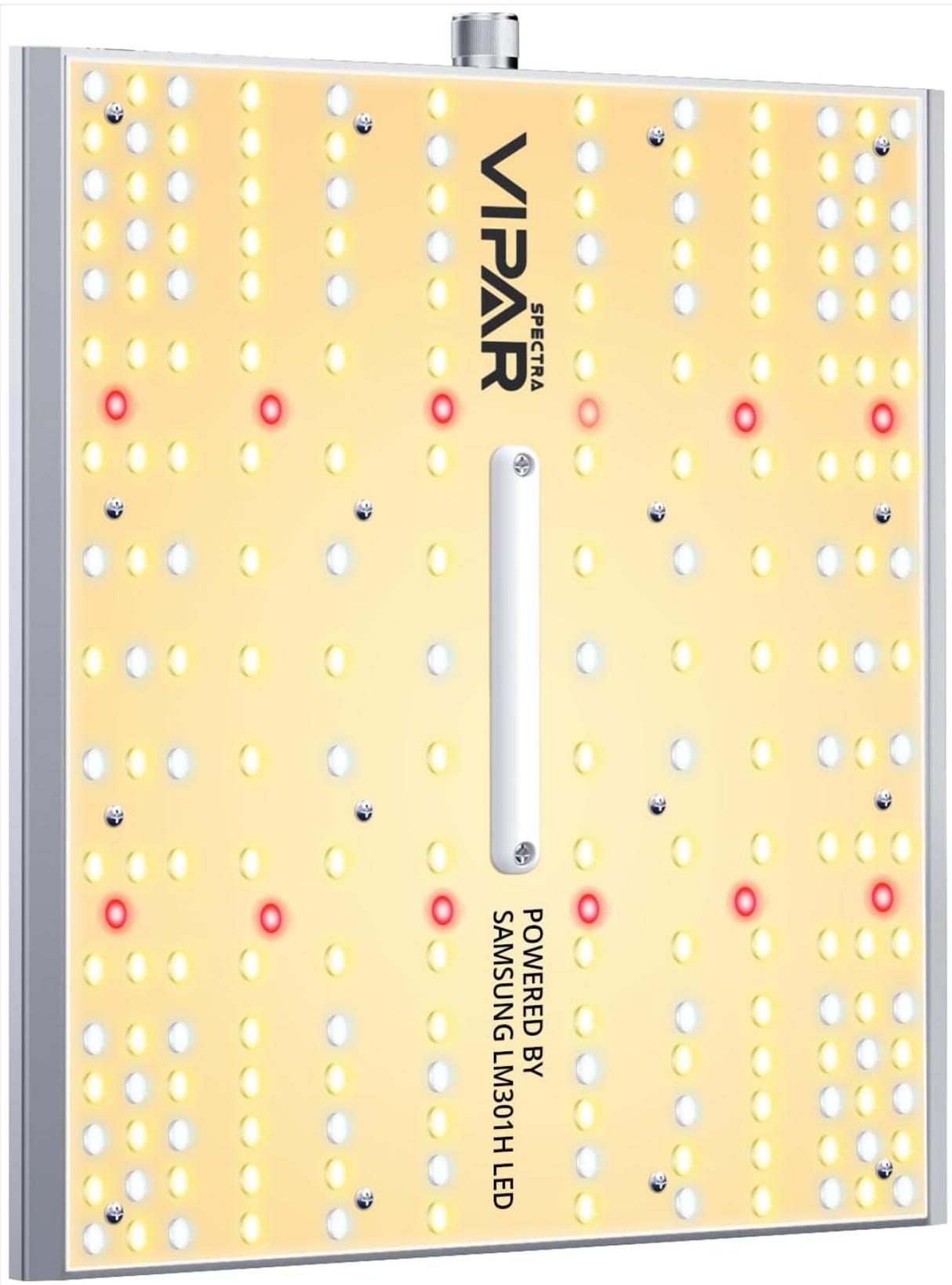


Image: The VIPARSPECTRA XS1000 LED Grow Light, a rectangular panel with numerous LED diodes, designed for plant cultivation.

## Safety Information

Please read and understand all safety instructions before operating the VIPARSPECTRA XS1000 LED Grow Light. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- Ensure the power supply voltage matches the light's requirements (230 Volts AC).
- Do not look directly at the operating LED lights. Prolonged exposure can cause eye damage.

- Keep the grow light away from water or any wet environments. This product is not waterproof.
- Do not attempt to disassemble or modify the grow light. This will void the warranty and may cause electrical hazards.
- Ensure proper ventilation around the grow light to prevent overheating.
- Keep out of reach of children and pets.
- Disconnect power before any installation, cleaning, or maintenance.

## Package Contents

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Verify that all items listed below are included in your package:

- 1 x VIPARSPECTRA XS1000 LED Grow Light
- 2 x Stainless Steel Hooks
- 2 x Rope Hangers
- 1 x Dimming Cable (1.5m / 59 inches)
- 1 x Power Cord (1.8m / 5.9 feet)



Image: A visual representation of the VIPARSPECTRA XS1000 LED Grow Light and its included accessories, such as hanging hardware and cables.

## Setup

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### 1. Mounting the Grow Light

1. Attach the stainless steel hooks to the designated mounting points on the top of the grow light fixture.
2. Connect the rope hangers to the stainless steel hooks.
3. Hang the grow light securely from a sturdy support structure within your grow tent or cultivation area using the rope hangers. Adjust the height as needed for your plants' growth stage.

## GROW LIGHT SYSTEM

A dimmable LED grow light designed with full spectrum Samsung LEDs to maximize plant yields.



Image: An illustration showing the VIPARSPECTRA XS1000 grow light suspended inside a grow tent, providing light to plants below.

## 2. Daisy Chain Connection (Optional)

The XS1000 supports daisy-chaining up to 20 units. This allows multiple lights to be controlled from a single dimmer.

1. Ensure all grow lights are powered off before connecting.
2. Connect one end of the dimming cable to the "OUT" port of the first grow light's controller.
3. Connect the other end of the dimming cable to the "IN" port of the next grow light's controller.
4. Repeat this process for additional lights, connecting the "OUT" of one to the "IN" of the next.
5. The dimmer on the first light in the chain will control the brightness of all connected lights.



Image: A diagram illustrating how to connect multiple XS1000 grow lights using the daisy-chain feature and dimming cable.

## Operating Instructions

### 1. Power On/Off

Plug the power cord into a standard electrical outlet. The light will turn on. To turn off, unplug the power cord or use an external timer (not included).

### 2. Dimming Control

The XS1000 features a 6-level dimmer knob located on the control box. Rotate the knob to adjust the light

intensity from 0% to 100% to suit the specific needs of your plants at different growth stages.



Image: A detailed view of the dimmable controller, indicating the 6 brightness levels from 0% to 100% and the external control option.

### 3. Recommended Light Settings (Growth Cycle)

The following table provides general guidelines for light distance, dimming, and light cycle for different plant growth stages. Adjustments may be necessary based on plant type and specific environmental conditions.

Parameter	Germination	Seedling	Vegetative	Flowering
Distance (in)	24" - 30"	24"	18" - 24"	12" - 18"
Dimming	50%	50% - 80%	80% - 100%	100%
Time	18hr ON / 6hr OFF	18hr ON / 6hr OFF	18hr ON / 6hr OFF	12hr ON / 12hr OFF



Image: A table detailing optimal light distance, dimming percentage, and light cycle duration for various plant growth phases.

### 4. Light Spectrum and PPF

The XS1000 utilizes a full spectrum of light, including 3000K, 5000K, 660nm (red), and 730nm (IR) LEDs, optimized for all plant growth stages. The algorithmic design ensures an ideal ratio of white, red, and IR diodes for maximum plant yield.

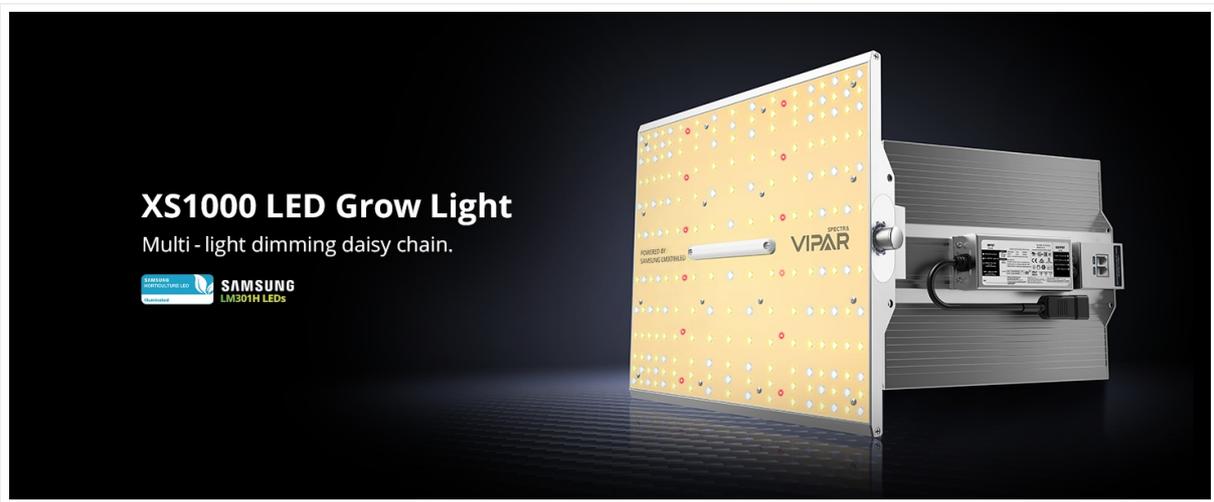


Image: A graph showing the spectral distribution of the grow light, highlighting the contribution of different LED types (5000K, 3000K, 660nm, 730nm) to promote germination, flowering, and boost yields.

The light provides uniform PPF (Photosynthetic Photon Flux Density) across the coverage area, ensuring consistent growth. For a 2x2 ft grow tent, the PPF values at various heights are detailed in the map below.

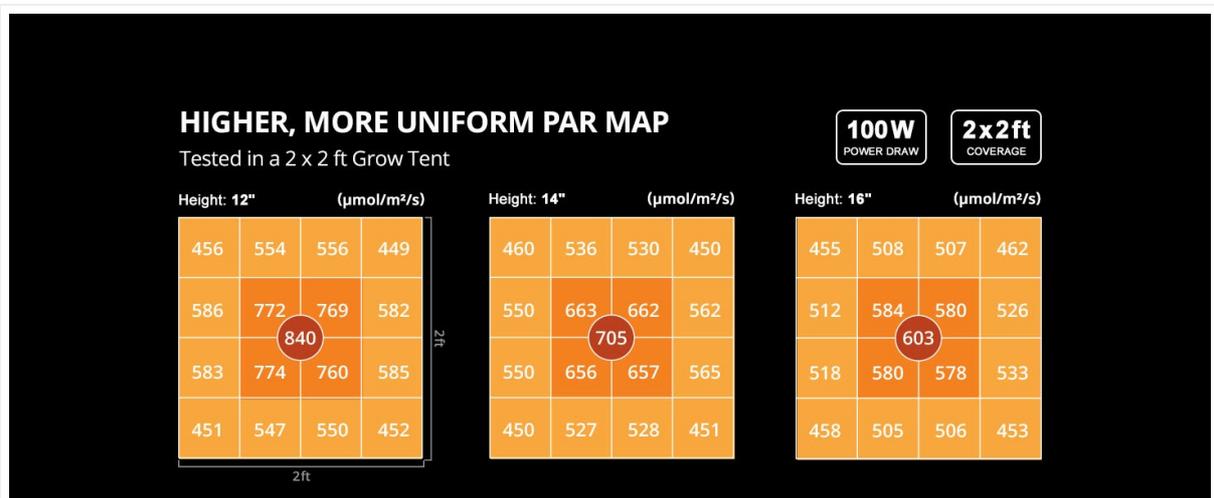


Image: PPF maps illustrating light intensity distribution (μmol/m<sup>2</sup>/s) for the XS1000 at 12, 14, and 16 inches above a 2x2 ft canopy.

## Maintenance

### 1. Cleaning

To maintain optimal performance, periodically clean the surface of the grow light. Ensure the unit is unplugged and completely cool before cleaning. Use a soft, dry cloth to gently wipe away dust and debris. Do not use liquid cleaners or abrasive materials.

### 2. Heat Dissipation

The XS1000 features a built-in solid aluminum heatsink for efficient heat dissipation, ensuring low heat output and prolonged LED lifespan. Regularly check that the heatsink fins are not obstructed to allow for proper airflow.



Image: An internal view of the grow light, illustrating the integrated aluminum heatsink designed for effective heat management.

## Troubleshooting

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If you encounter issues with your VIPARSPECTRA XS1000 LED Grow Light, refer to the following common problems and solutions:

- **Light Not Turning On:**
  - Check if the power cord is securely plugged into both the light and the electrical outlet.
  - Verify that the electrical outlet is functional by plugging in another device.
  - If using a daisy chain, ensure the main power supply is connected to the first light in the chain.
- **Light Output is Low or Flickering:**
  - Check the dimmer knob setting; ensure it is not set to 0% or a very low percentage.
  - If daisy-chained, ensure the dimming cable connections are secure.
  - Ensure the light is not overheating; check for proper ventilation.
- **Plants Showing Stress or Poor Growth:**
  - Review the "Recommended Light Settings" table and adjust light distance and dimming accordingly for your plant's growth stage.
  - Check other environmental factors such as temperature, humidity, nutrients, and watering schedule.

If the problem persists, please contact VIPARSPECTRA customer support.

## Technical Specifications

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Specification	Value
Model Number	XS1000
Wattage	100 Watts
Light Source Type	LED (Samsung LM301H Diodes)
Full Spectrum	3000K, 5000K, 660nm (Red), 730nm (IR)
Brightness	15626 Lumen
Coverage Area	2x2 ft (Flowering), 2.5x2.5 ft (Vegetative)
Dimmable	Yes (6 levels, 0-100%)
Daisy Chain Capacity	Up to 20 units
Material	Aluminum
Product Dimensions	11.8"L x 11"W x 2.6"H
Item Weight	3.87 pounds (1.76 Kilograms)
Voltage	230 Volts (AC)
Amperage	0.51 Amps
Color Rendering Index (CRI)	87.00

## Warranty and Support

VIPARSPECTRA products are designed for quality and durability. For specific warranty details, including coverage period and terms, please refer to the official VIPARSPECTRA website or the warranty card included with your product.

If you require technical assistance, have questions about your product, or need to initiate a warranty claim, please contact VIPARSPECTRA customer support through their official channels:

- **Website:** [www.viparspectra.com](http://www.viparspectra.com)
- **Email:** Refer to the website for current support email addresses.
- **Phone:** Refer to the website for current support phone numbers.

Please have your model number (XS1000) and purchase information ready when contacting support.