



Hortilight LED Systems

ScrogMaster Dual

Technical Specification

Release Version: V3.0

Release Date: 2024/06/15

Main advantages ScrogMaster Dual

1. Light Intensity

With its expansive wingspan, the ScrogMaster Dual is the perfect choice for a growing area of 150x150 cm. It provides optimal light distribution at a distance of 20 to 60 cm from the plant canopy. Due to its powerful light intensity and deep penetration at this range, it is recommended to add extra CO₂ to your grow room if needed. Compared to traditional HPS lights, the ScrogMaster Dual offers greater light intensity and faster plant growth, while consuming only 30 - 50% of the energy required by HPS systems.

2. High Efficiency

The ScrogMaster Dual is equipped with high-quality, highly efficient Bridgelux LEDs, achieving an outstanding LED efficacy of 2.8 $\mu\text{mol}/\text{J}$, ensuring optimal light output for robust plant development.

3. Long Lifespan

The Bridgelux LEDs used in the ScrogMaster Dual are specifically designed for horticultural environments. These LEDs are built to withstand extreme temperatures, humidity, and exposure to chemicals, ensuring excellent light output, durability, and reliability. With a long lifespan of up to 50,000 hours, they provide consistent performance over time.

4. Dual Spectrum

The ScrogMaster Dual features two distinct spectra: a Full Plant Growth Spectrum for the entire plant life cycle and a Supplemental Spectrum that includes UV, IR, and 660nm hyper-red light. Each spectrum has its own separate 0-100% manual dimming control. The Full Spectrum is essential for general plant growth, while the Supplemental Spectrum is used to enhance plant morphology, promote flowering, and maximize yield.

5. Cluster Dimming Control

With the included RJ14 cable, multiple ScrogMaster Dual fixtures can be linked in a daisy chain configuration. This allows all units to be controlled simultaneously via a single dimming knob, providing unified control over the lighting intensity across your grow room.

6. Simple Setup

The ScrogMaster Dual requires an easy setup. First the LED Driver System needs to be connected to the unfolded LED Bar frame, with the splitter connector cable. After connecting the LED Driver System, the ScrogMaster Dual can be plugged directly into an 120V or 230V power socket.

7. Waterproof

The ScrogMaster Dual is built for durability with IP65-rated waterproof protection for the LED drivers, LED bars, and wire connectors. The LEDs are securely attached to the aluminum frame and sealed for additional protection, ensuring reliable performance in humid or wet conditions.

8. Environment friendly

The ScrogMaster is an eco-friendly lighting solution compared to traditional HPS lights. Unlike HPS lamps, LEDs do not contain harmful substances such as mercury or iodine, and they are manufactured with far less energy. This means fewer toxic materials, such as lead, and no hazardous waste to dispose of, contributing to a greener environment.

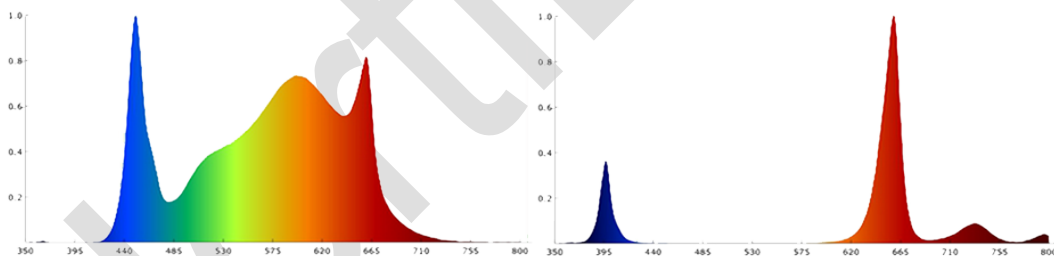
ScrogMaster Dual



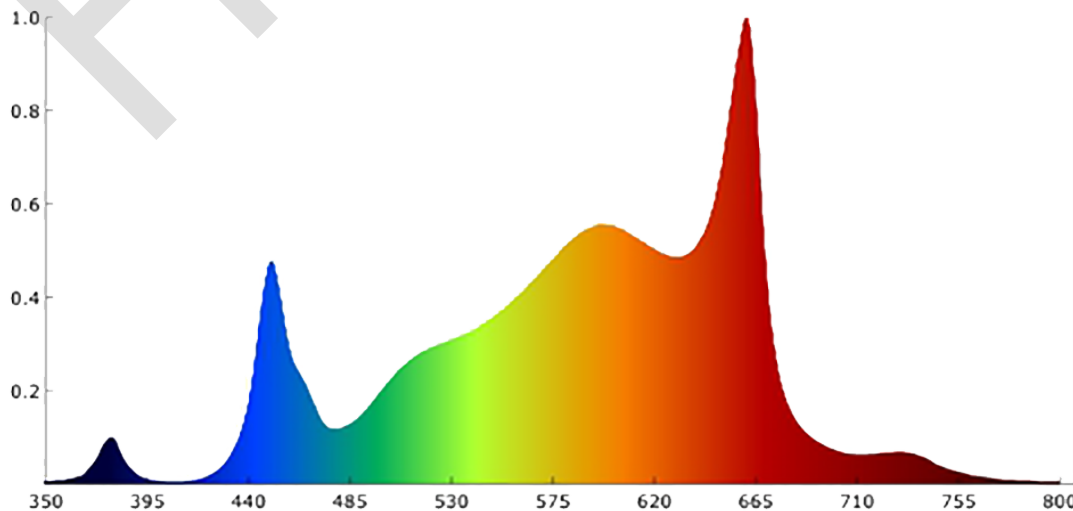
ScrogMaster Dual spectra

Full Spectrum

Supplemental Spectrum



Dual Spectrum



PRO Dual LED Driver System



Technical specification SMD720

Item	Value	Item	Value
LED chips	Bridgelux	Power consumption	~ 720 Watt
LED driver	B600 PRO Dual	Power factor	> 98%
LED wavelength	Dual Spectrum	Spectrum control	Dual 0 – 100%
Light distribution	120° beam angle	Cluster dimming	RJ14
Lifespan	Up to 50.000 hours	Voltage	120V, 230V
Height above plants	≥ 20 cm	Work frequency	50Hz / 60Hz
Lighting area	≥ 150 x 150 cm	Working environment	-20 ~ + 35°C
LED efficiency	~ 2,8 μmol / J	Waterproof level	IP65
ScrogMaster size	1115x1080x40mm	Weight	13 Kg

ScrogMaster Dual Certifications and Warranty



Note:

1. Select different lighting time depending on plant species.
2. Don't look into the LED light directly without wearing sunglasses.
3. Power socket should be connected to the ground/earth.
4. The ScrogMaster Dual is CE, ETL and RoHS compliant.
5. After sales service; 3-year limited warranty.