



Hortilight LED Systems

650W ScrogMaster PRO

Technical Specification

Hortilight

Release Version: V4.0

Release Date: 2024/10/15

Main advantages ScrogMaster PRO

1. Light intensity

With its 1200mm wingspan, the ScrogMaster PRO is designed for growing areas up to 150x150 cm. The light spread is optimized when the fixture is positioned 15 to 25 cm from the canopy. Due to its high light intensity and deep penetration at this distance, it's recommended to supplement with CO₂ if your plants require it. Compared to traditional HPS grow lights, the ScrogMaster PRO delivers higher light intensity and superior growth rates, while consuming only 30 - 50% of the electricity.

2. High efficiency

Equipped with high-efficiency Samsung LEDs, the ScrogMaster PRO achieves an impressive PAR efficacy of 2.8 $\mu\text{mol}/\text{J}$, ensuring optimal energy usage and maximum light output for your plants.

3. Long lifespan

The Samsung LEDs used in the ScrogMaster PRO are specifically designed for horticultural environments. These LEDs are built to withstand extreme temperature fluctuations, high humidity, and exposure to chemicals, guaranteeing sustained high light output, exceptional quality, and reliability with a lifespan of up to 50,000 hours.

4. Waterproof

The LED drivers, LED bars, and wire connectors are all IP65 rated for waterproof protection. The LEDs themselves are securely attached to the aluminum frame and sealed to ensure reliable, water-resistant performance.

5. Daisy Chain dimming

The ScrogMaster PRO comes equipped with a dimming knob, allowing for manual adjustment from 0% to 100% intensity. The included RJ14 cable enables multiple ScrogMaster units to be linked in a Daisy Chain configuration, so a single dimming knob can control the intensity of all connected fixtures.

6. Optional Controllers

Optional Bluetooth, DIM, or RJ14 controllers are available to set customized lighting schedules. These controllers can simulate a natural sunrise and sunset, further enhancing the light's efficiency. Additionally, the RJ14 cable allows for seamless integration, enabling one controller to manage multiple ScrogMaster PRO fixtures simultaneously.

7. Advanced thermal design

The ScrogMaster PRO employs an advanced passive cooling system. The aluminum frame of the LED bars acts as a heat sink, dissipating heat efficiently. The aluminum PCB is directly attached to the body for optimal thermal management. Passive cooling is energy-efficient, free from moving parts, and requires no maintenance, ensuring longevity and reliability.

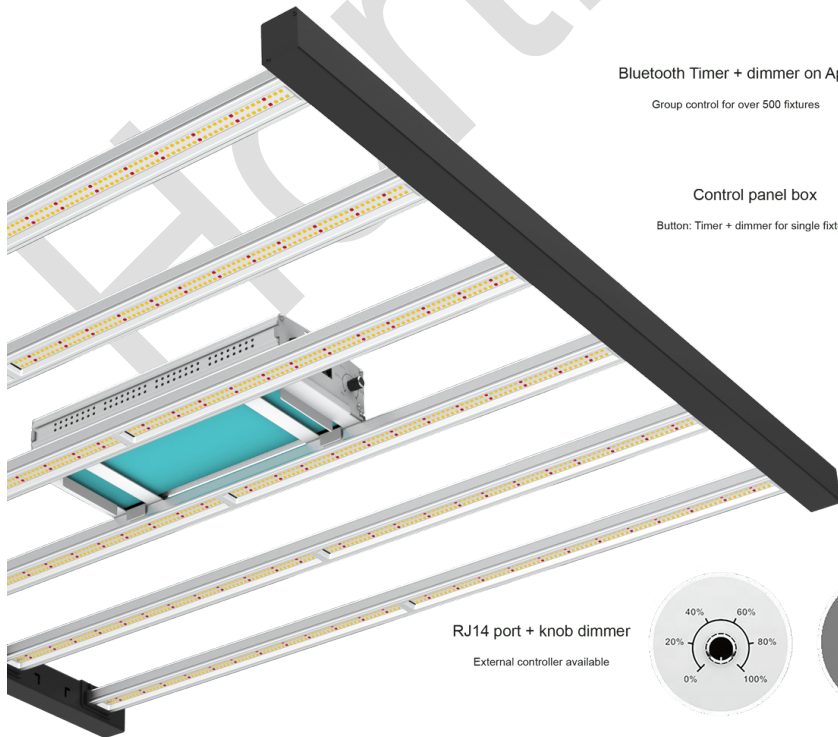
8. Environment friendly

A ScrogMaster PRO does not contain the harmful substances HPS & MH lights do have. LED lighting is superior in comparison to other lighting technologies in terms of negative environmental and health effects during the manufacturing process. So, there is less waste, which makes our earth cleaner and greener!

Picture ScrogMaster PRO



Features & options ScrogMaster PRO Series



Bluetooth Timer + dimmer on App

Group control for over 500 fixtures



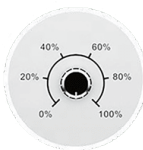
Control panel box

Button: Timer + dimmer for single fixture

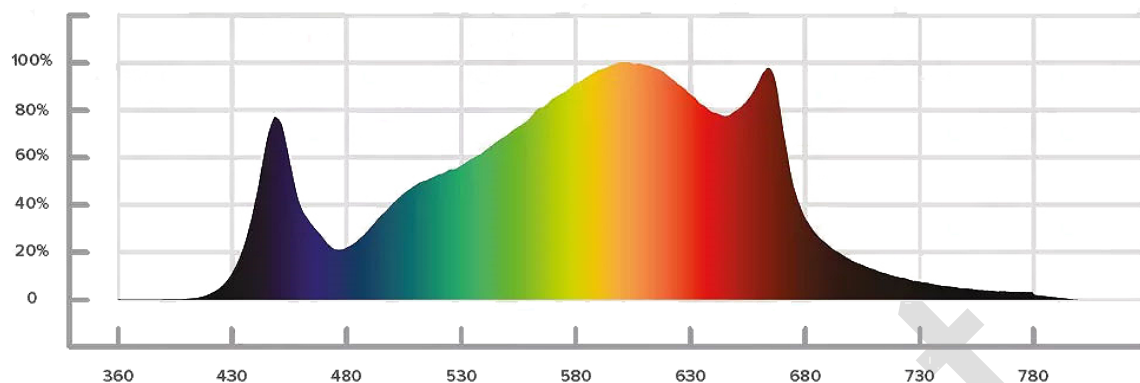


RJ14 port + knob dimmer

External controller available



Spectrum ScrogMaster PRO



Technical specification SMP1200

Item	Value	Item	Value
LED brand	Samsung	Power consumption	~ 650 Watt
LED chips	EVO, LM301B	Power factor	> 98%
LED driver	Inventronics	Dim control	0 – 100%
Light distribution	120° beam angle	PRO connection	RJ14
Lifespan	> 50.000 hours	Voltage	120V, 230V
Height above plants	≥ 15 cm	Work frequency	50Hz / 60Hz
Lighting area	≤ 150 x 150 cm	Working environment	-20 ~ + 35°C
PAR Photon flux	~ 2,8 μmol / J	Waterproof level	IP65
ScrogMaster size	1200x1100x100mm	Net weight	16 Kg

Certification and Warranty of ScrogMaster PRO Series



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 PRO is CE, DLC, ETL and RoHS compliant.
5. After sales service; 3 years warranty.