



Hortilight LED Systems

# ScrogMaster 800

Technical Specification

Release Version: V2.0

Release Date: 2023/04/01

## Advantages ScrogMaster 800

### 1. Light intensity

With a wingspan of 800mm, the ScrogMaster 800 is the ideal partner for a growing area till 120x120cm. The ScrogMaster 800 has an optimal light spread at a distance of 15 to 25cm. Be aware of its high light intensity at this small distance and add extra CO<sub>2</sub> to your grow room if plants need it.

Compared to HPS grow lights the ScrogMaster 800 gives plants more light intensity and better grow rates, yet using less than 50% of the electricity.

### 2. High efficiency

The ScrogMaster 800 is provided with high efficacy 3000K + 6500K Samsung LM301H and OSRAM 660nm LEDs, which gives the SMB800 a PAR efficacy of 2,85 µmol/J !

### 3. Long lifespan

The Samsung and OSRAM LEDs used for the ScrogMaster 800 are especially developed for Horticulture environment, which ensures the LEDs are resilient against severe temperature, humidity and exposure to chemicals. This guarantees high light output, high quality and high reliability with a long lifespan up to 50.000 hours.

### 4. Setup required

The ScrogMaster 800 requires an easy setup. The LED Bars have a simple connection to the special recesses in the frame. The LED Driver can be mounted on top of the LED Bars with two brackets. After connecting the LED Driver, the ScrogMaster 800 can be plugged directly into an AC100 to AC277 Volts power socket.

### 5. Waterproof

The LED Drivers, LED Bars and wire connectors are IP65 waterproof. The LEDs are attached to the aluminum frame and waterproof sealed.

### 6. Daisy Chain dimming

The ScrogMaster 800 is provided with a dim knob for manual 0 – 100% dimming. With the included RJ45 cable many ScrogMaster 800 fixtures can be looped in a Daisy Chain, so that any of dim knobs does operate all ScrogMaster lights.

### 7. PWM Controller [optional]

An optional HortiLight RJ45 Controller with remote can be used to set lighting schedules. This can simulate a rising and setting sun, making the lighting even more efficient. With the included RJ45 cable many ScrogMaster 800 fixtures can be looped in a Daisy Chain, so that the HortiLight RJ45 Controller does operate all ScrogMaster lights.

### 8. Advanced thermal design

The LEDs are passively cooled by the aluminum frame of the LED Bars. The aluminum PCB is directly attached to the aluminum body of the LED Bars for optimal heat dissipation. Passive LED cooling is preferred above active cooling. No moving parts are needed, which is energy efficient and requires no maintenance.

### 9. Environment friendly

A ScrogMaster 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!

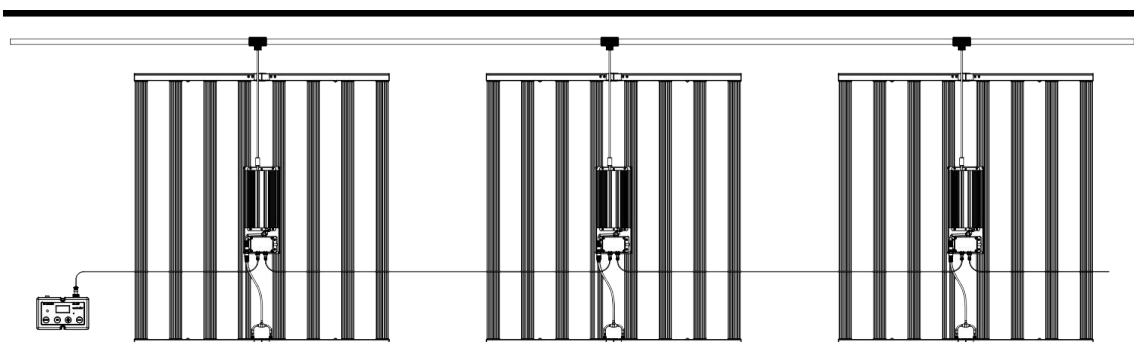
## Picture ScrogMaster 800



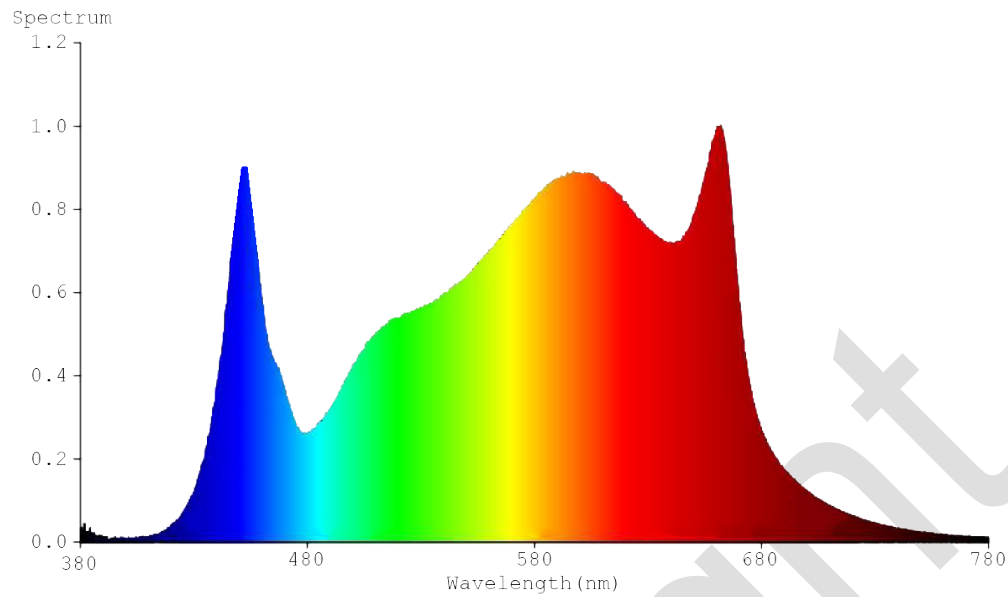
## HortiLight RJ45 Controller [optional]



## Daisy Chain dimming / control



## Spectrum ScrogMaster 800



## Technical specification SMB800

Item	Value	Item	Value
LED chips	Samsung & OSRAM	Power consumption	~ 330 Watt
LED driver	Inventronics	Power factor	> 98%
LED wavelength	Full-spectrum	Dim control	0 – 100%
Light distribution	120° beam angle	Basic connection	RJ45
Lifespan	> 5 years	Voltage AC	100V – 277V
Height above plants	≥ 15 cm	Work frequency	50Hz / 60Hz
Lighting area	≤ 120 x 120 cm	Working environment	-20 ~ + 35°C
PAR Photon flux	2,85 μmol / J	Waterproof level	IP65
ScrogMaster size	800x700x80 mm	Net weight	7 Kg
Packing size	850x240x210 mm	Gross weight	9 Kg

## Certification and Warranty of ScrogMaster 800



## Note:

1. Select a lighting time depending on growing phase and plant species.
2. Don't look into the LED light directly without wearing sunglasses.
3. The power plug should be connected to the ground/earth.
4. The ScrogMaster 800 is CE, ETL and RoHS compliant.
5. After sales service; 3 years warranty, from factory date!