

HORTILIGHT LED SYSTEMS

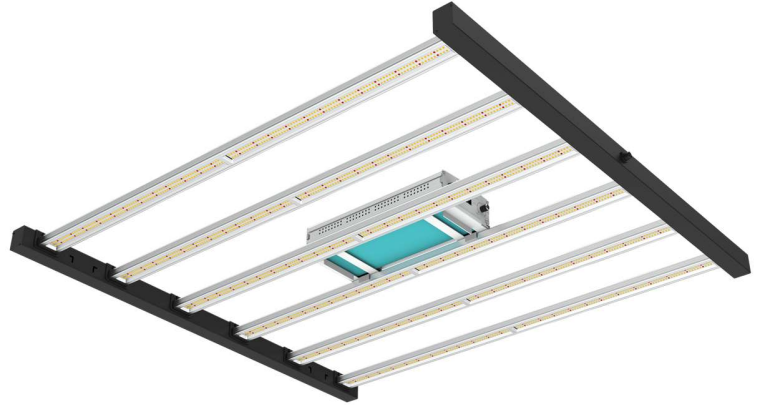
650W

ScrogMaster PRO

Professional LED bar system

SMP1200

Samsung EVO + LM301B / Inventronics driver

**SAMSUNG LED / 2.8 $\mu\text{mol/J}$ / 150 x 150 CM**

A 650W horticultural LED system engineered for high light intensity, close-canopy operation and uniform coverage.

~650 W

POWER

~2.8 $\mu\text{mol/J}$

PAR EFFICACY

 $\leq 150 \times 150 \text{ cm}$

LIGHTING AREA

IP65

PROTECTION

Technical Specification / Release V4.0

SYSTEM ARCHITECTURE

Designed for close-canopy lighting

The 1200 mm-wide ScrogMaster PRO uses multiple LED bars to distribute light across growing areas up to 150 × 150 cm. The manufacturer specifies an optimized operating distance of 15 to 25 cm from the canopy.



01

SAMSUNG LED PLATFORM
Samsung EVO and LM301B LED chips.

02

INVENTRONICS DRIVER
Integrated driver platform with >98% power factor.

03

120° DISTRIBUTION
Wide beam angle across the bar-array footprint.

04

PASSIVE THERMAL DESIGN
Aluminum LED-bar frame functions as the heat sink.

05

0-100% DIMMING
Manual intensity adjustment from 0 to 100%.

06

RJ14 DAISY CHAIN
Multiple fixtures can be linked for synchronized control.

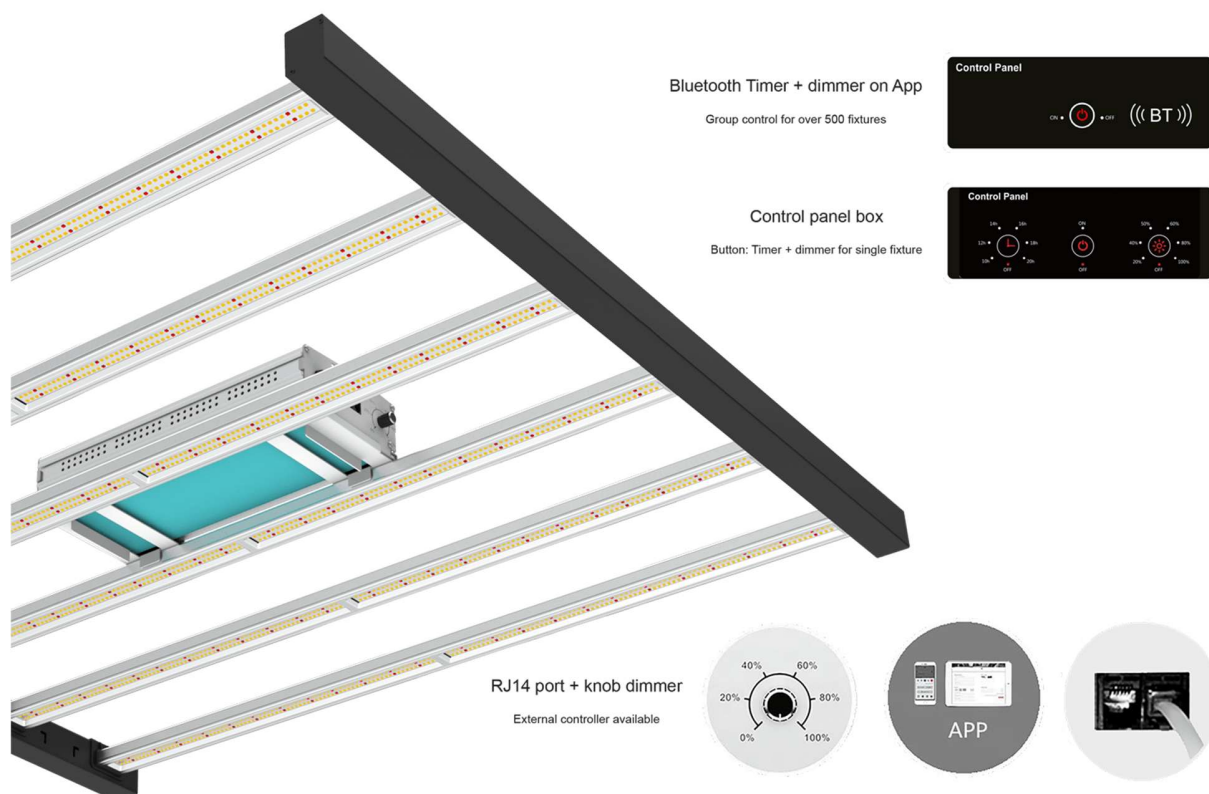
OPERATING HEIGHT

Specified minimum height above plants: ≥15 cm. Manufacturer guidance describes 15–25 cm as the optimized range for light spread.

CONTROL & INTEGRATION

From manual dimming to group control

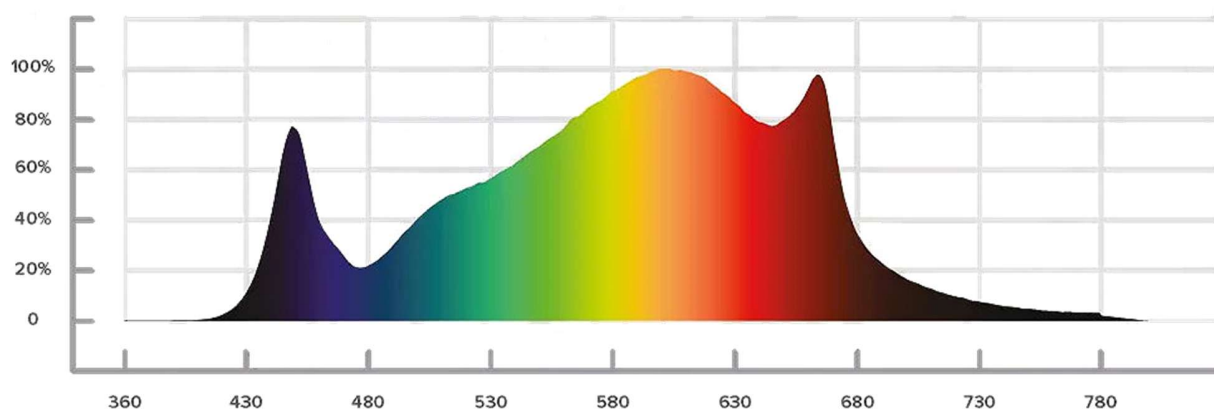
The ScrogMaster PRO includes a manual dimming knob and RJ14 connectivity. Optional Bluetooth, DIM and RJ14 controllers can add lighting schedules and centralized control of multiple fixtures.



LIGHT SPECTRUM

Broad horticultural spectrum

The manufacturer spectrum chart shows a broad visible output with a blue peak, strong mid-spectrum output and a pronounced deep-red component.



ENGINEERING DATA

Technical specification

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	50 / 60 Hz
LIGHTING AREA	≤150 × 150 cm	WORKING ENVIRONMENT	-20 to +35 °C
PAR EFFICACY	~2.8 µmol/J	WATERPROOF LEVEL	IP65
SCROGMASTER SIZE	1200 × 1100 × 100 mm	NET WEIGHT	16 kg

COMPLIANCE & WARRANTY

CE / DLC / ETL / RoHS Specified compliance	3 YEAR WARRANTY Manufacturer specification
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SAFETY NOTES

- Select lighting time according to plant species.
- Do not look directly into the operating LED light.
- Connect the fixture to a properly grounded power socket.