

HORTILIGHT LED SYSTEMS

720W

ScrogMaster

Dual

Dual-spectrum LED bar system

SMD720

Independent Full Spectrum + Supplemental control

DUAL SPECTRUM / 2.8 $\mu\text{mol/J}$ / 150 × 150 CM

A 720W horticultural LED system with separate full-spectrum and UV + IR + 660 nm supplemental channels.

~720 W

POWER

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

LED EFFICACY

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

LIGHTING AREA

IP65

PROTECTION

Technical Specification / Release V3.0

SYSTEM ARCHITECTURE

Dual-channel light engine

The ScrogMaster Dual combines a wide LED-bar frame with a B600 PRO Dual driver system. Both spectral channels can be controlled independently from 0 to 100%.



01

BRIDGELUX LEDs

High-efficiency horticultural LEDs with a specified efficacy of ~2.8 $\mu\text{mol/J}$.

02

B600 PRO DUAL

Dedicated dual-channel LED driver system.

03

FULL SPECTRUM

Primary plant-growth spectrum for the complete life cycle.

04

SUPPLEMENTAL CHANNEL

UV, IR and 660 nm hyper-red light on a separate control channel.

05

DUAL 0-100% CONTROL

Each spectrum has its own manual dimming control.

06

CLUSTER DIMMING

RJ14 connection enables linked fixtures to be controlled together.

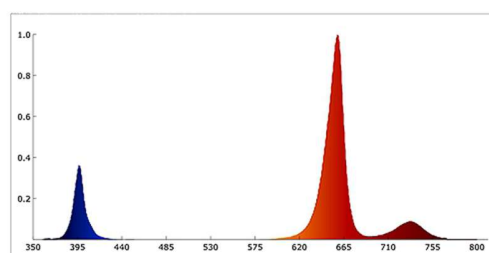
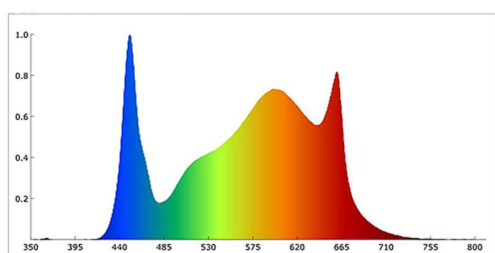
INSTALLATION

The unfolded LED-bar frame connects to the driver with the splitter cable and then directly to a 120V or 230V supply.

DUAL SPECTRUM

Independent spectral channels

The two channels can be used separately or combined. The supplied spectral diagrams show the Full Spectrum, the Supplemental Spectrum, and the resulting combined Dual Spectrum.



FULL SPECTRUM

Primary spectrum for general plant growth throughout the complete life cycle.

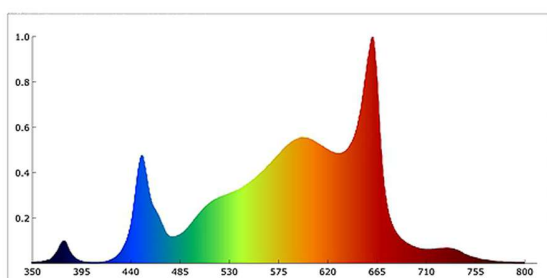
SUPPLEMENTAL SPECTRUM

UV + IR + 660 nm hyper-red for additional spectral control.

CONTROL STRATEGY

PRO Dual driver system

COMBINED SPECTRUM



0-100%

FULL SPECTRUM

Independent manual control

0-100%

SUPPLEMENTAL

Red + IR + UV channel

RJ14

CLUSTER CONTROL

Linked fixture dimming

ENGINEERING DATA

Technical specification

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	50 / 60 Hz
LIGHTING AREA	≥150 × 150 cm	WORKING ENVIRONMENT	-20 to +35 °C
LED EFFICIENCY	~2.8 μmol/J	WATERPROOF LEVEL	IP65
SCROGMASTER SIZE	1115 × 1080 × 40 mm	WEIGHT	13 kg

APPLICATION

Suitable for greenhouse and indoor cultivation, all phases of plant growth, and both hydroponic and soil-based growing.

COMPLIANCE & WARRANTY

CE / ETL / RoHS Specified compliance	3 YEAR WARRANTY After-sales warranty
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SAFETY NOTES

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