Project:	
Type:	
Note:	

SLGLRD Multi-Spectral Camera GROW LIGHT

DESCRIPTION

Introducing our cutting-edge R&D Grow Light, meticulously designed to revolutionize your research and development endeavors in the field of horticulture. With six distinct LED channels, this innovative lighting solution offers unparalleled versatility and preci-sion for your experiments. Each LED channel is fully adjustable, allowing you to fine-tune the spectrum and intensity of light according to your specific research requirements. This level of customization empowers you to optimize plant growth conditions, simulate various environmental scenarios, and explore the nuanced effects of light on different crops.

Designed with the needs of researchers in mind, our R&D Grow Light provides a dynamic platform for experimentation, enabling you to delve into the intricacies of plant responses to light. Whether you are studying photosynthesis, conducting breeding trials, or exploring growth patterns, this grow light offers the flexibility and control necessary to achieve meaningful results.

SPECIFICATION FEATURES

- Extruded aluminum heat sinks maximize LED lifetime and optimal performance
- Durable white-painted center driver channel
- Light weight design allows for a less obtrusive installation
- Includes aircraft cables for suspended mount; optional bracket for pendent and surface mount

Electrical System

- High efficiency driver
- Input Voltage: 120-277V, 50/60Hz, 480V Available
- Operating Temperature: -20°C (-4°F) to 50°C (122°F)
- 0-10V Continuous dimming
- 6-channel Dimming option
- Power Factor: >0.90
- Total Harmonic Distortion: <20%
- Suitable for dry and damp locations

LED

- Photon Flux Maintenance: Q90 > 50,000 hrs
- Osram, Seoul and Samsung LEDs

Certification

- Certified to UL 8800 Horticulture Lighting
- DLC Horticulture Pending

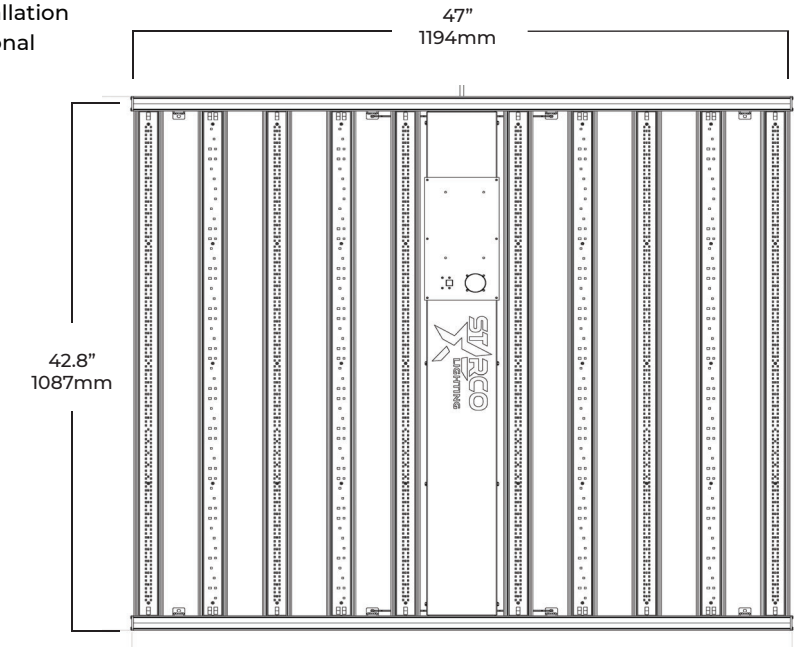
Warranty

- 5 Years

Spectrum

- 385nm 450nm 660nm 730nm
- 3000K 6000K
- All channels fully adjustable

DIMENSION



	Length	Width	Height	Unit
Camera Case	9.84	5.31	2.16	Inch
	250	135	55	mm

ORDER INFORMATION

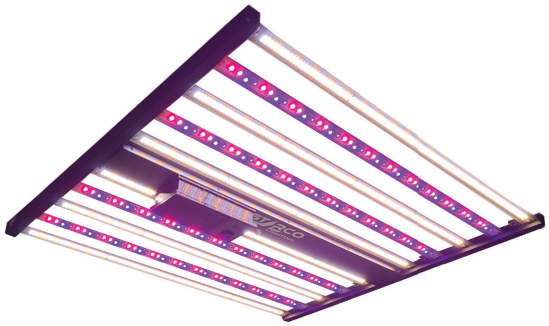
SLGLRD LED GROW LIGHT

Example: SLGLRD-1000-R-FS-D-W

SLGLRD					
Series	Wattage	Input Voltage	Spectrum	Accessories	Add-on
SLGLRD=LED Grow Light	**1000**=1000W **1500**=1500W	**R**=120-277V **H**=480V	**FS**=385,450,660,720nm & 3000K & 6500K **CS**=Custom:355, 385, 435, 450, 660, 720nm & 1800K,2700K, 3000K, 5000K, 6500K	**D6**=6 Channel Analog Dimmer **DIC**= 6-Channel Digital Interface Controler	**IAC**=Integrated AI Camera System **IPS**=Image Post-Processing Software
Accessories (Included)					
(1) Data Cord **(2)** Bolts **(2)** V-hooks **(2)** Adjustable Pulley Systems			**(4)** Aircraft Cables		

PERFORMANCE DATA

AC Input Power	1000W 1500W
Light Output PPF	**1000W:** 2,700 µmol/s **1500W:** 4,050 µmol/s
AC Input Voltage	120-277V, 50/60 Hz
Light Distribution	120°
PPE	2.7+ µmol/J
Power Factor	> 0.9
Control	0-10V Dimming
Operating Temperature	-20°C to 50°C
Certification	UL 8800, DLC pending
THD	<20%
Warranty	5 Year
Photon Maintenance Q90	>50,000 hours



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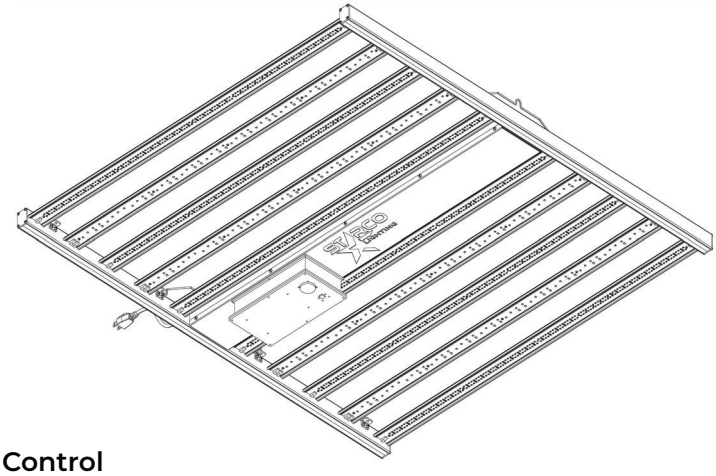
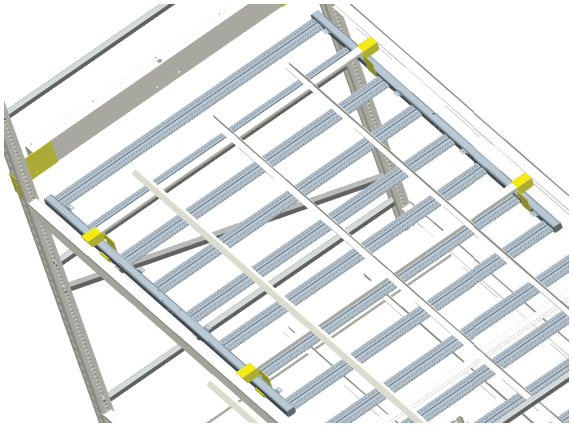
Suspended Mount



Racking Surface Mount

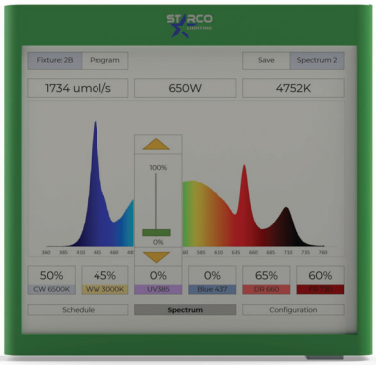


Control

Experience unprecedented control and precision with our advanced R&D Grow Light's state-of-the-art control system. Tailored for researchers and growers who demand the utmost in customization, this intuitive interface puts the power in your hands.

Our user-friendly control system allows you to effortlessly manipulate each of the six LED channels independently. Fine-tune the spectrum and intensity with precision, giving you the ability to create bespoke lighting conditions for your experiments. Whether you're simulating specific environmental scenarios or conducting targeted studies on plant responses to light, our control system provides the flexibility you need.

Seamlessly adjust settings, save and replicate configurations, and monitor real-time data, all through an intuitive interface that simplifies the complexities of light management. The control system is designed to be as dynamic and adaptable as your research, ensuring that you have the tools to unlock new insights in the realm of horticulture.



AI Camera System

Introducing our groundbreaking R&D Grow Light equipped with an intelligent AI Camera System, a game-changer in plant disease detection and prevention. This cutting-edge technology takes horticulture research to new heights by providing real-time, data-driven insights into the health of your plants.

Our AI Camera System employs advanced algorithms to analyze subtle changes in plant foliage, detecting early signs of diseases with unparalleled accuracy. From nutrient deficiencies to potential infections, the system acts as a vigilant guardian, alerting you to issues before they become visible to the naked eye.

The integration of artificial intelligence allows the camera system to continuously learn and adapt, refining its detection capabilities over time. This proactive approach enables researchers to take preemptive measures, minimizing the impact of diseases and optimizing plant health.