

HIGH-INTENSITY VISIBLE SPECTRUM LED LIGHTING SYSTEMS







High-Intensity Visible Spectrum LED Lighting Systems

Version 2 November 03, 2021 © REL, Inc.

REL, Inc. manufactures World Class equipment. REL's extensive background in advanced materials and mechanical design have allowed a unique specialization in process equipment for REL branded equipment in Fluorescent Penetrant Inspection Process (FPI) for Non-Destructive Testing, servo driven material handling equipment, and High Strain Rate Material Testing.

REL, Inc.

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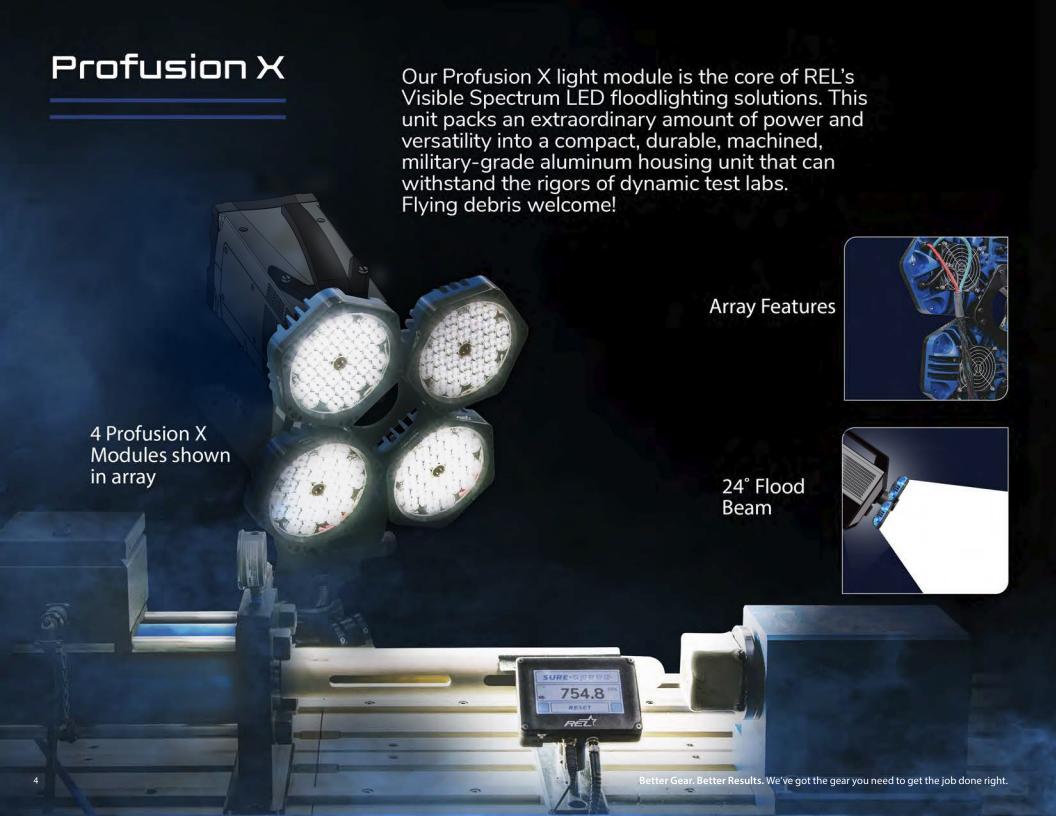
High-Intensity Visible Spectrum LED Lighting Systems

REL's High-Intensity Visible Spectrum LED lights are designed and built specifically for ultra high-speed scientific research video cameras featuring frame rates greater than five million frames per second.

REL has a decades-long tradition of manufacturing High Strain Rate Testing equipment for advanced materials research and understands the challenge of providing enough light to capture events on the microsecond time scale.

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Features

- 13k lux (72k lumens) at 4m peak continuous capacity using the PS1 power supply
- Includes Laser Alignment Tool for quick and accurate light beam focus
- Thermal shut off protection
- Tripod ready and featuring 1/4-20 machined holes for a variety of mounting options
- 65" FWHM spot at 4m
- Up to 50' cord length
- 24 Deg Beam
- Dimensions: 7.25"W x 8"H
- Weight: 5.8 lbs.

Manual Controller



Profusion X form factor

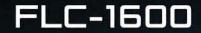


Power your module(s) with custom REL power supplies



Profusion X Module shown with Laser Alignment Tool





Our FLC-1600 was purpose-built for capturing energetic events, at millions of frames per second, from up to 100 feet away. This Four Leaf Clover (FLC) of Fresnel lens adjustable focusing brilliance allows the user to focus light on the dynamic event from a safe distance.

Integration Features



Focus Long Range 2'-100'



Features

- High Intensity, up to 240,000 lumens at 10 million candela
- Long range, up to 100' for safe recording of high energy events
- Runs at 2 kilowatts on a standard 120V circuit
- FLC-MOD also sold individually with tripod
- REL designed Tripod Head included with every FLC-1600

FLC-MOD with Laser Alignment Tool

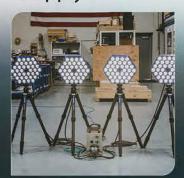
Manual Controller



Power your module(s) with custom REL power supplies



Four FLC-MODS with PS3 Power Supply



Tripod head





Features

• High intensity fixed focal point light source (10 Mlux peak intensity)

• Illumination for up to 5M frames per second in many configurations

- 100% Duty Cycle at Maximum Output
- Low IR with minimal sample heating
- Precise dimming output control using hand held remote
- Tripod mounted and can work with any camera
- Durable and portable
- Dimensions: 16" OD x 6" ID x 2" Thick Ring
- Weight: 15 lb.

Intense Light for your high speed event



Manual Controller



Power your light with a custom REL power supply



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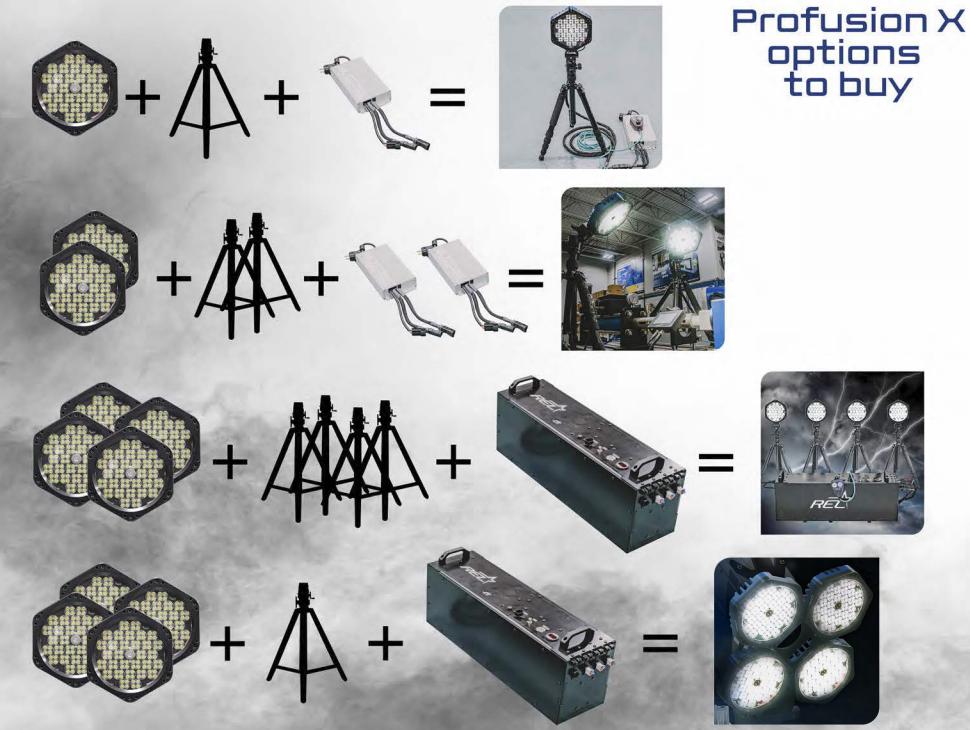
Universal Tripod



- Support 250 pour
- 90 degrees of tilt of
- 360 degrees of pa
- Geared drive to co camera and lightir
- Integrates REL Viswith a camera on

Ergonomic adjustments





Power Supplies

- All power supplies work with all REL Visible Spectrum Lighting
- Long range, up to 100' for safe recording of high energy events
- Run on a standard 120V circuit
- Undetectable flicker in light intensity at max output



PS1-LITE:

- Compact 7" x 6" x 2"
- 600 watt output
- On/Off control
- Powers one Profusion X module



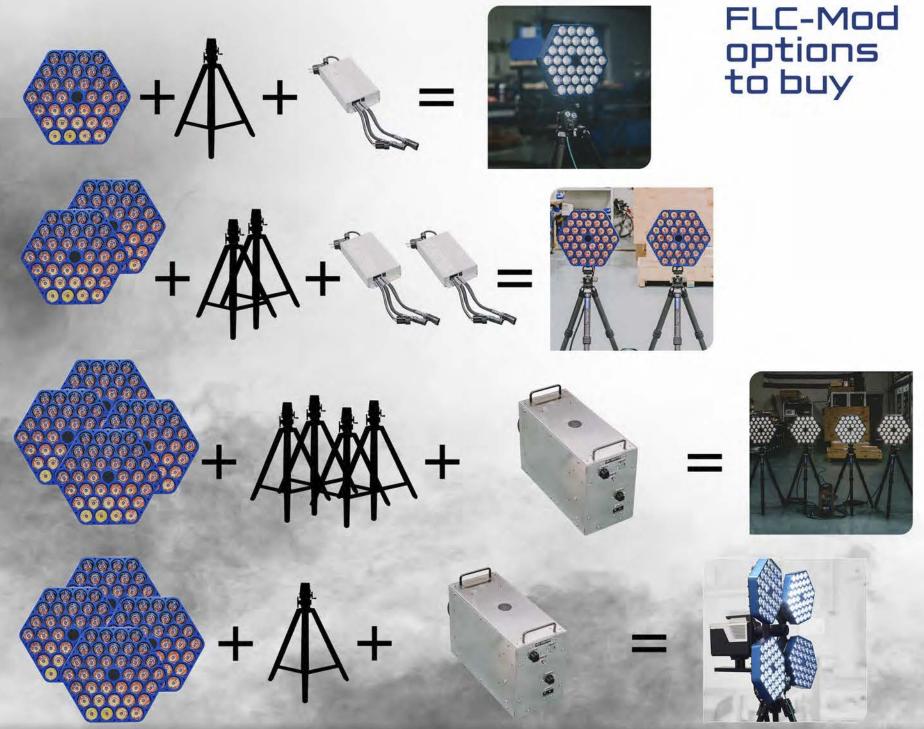
PS1 - PS3:

- 15" x 7" x 10"
- 600-2400 watt output
- BNC trigger port
- 10-20 second burst output 4X Power (PS3)



PS4:

- 28" x 10" x 7.75"
- 17kw Capacitive power
- Powers up to 4 Light Modules
- 5V TTL triggerable



Power Supplies

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- Run on a standard 120V circuit
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PS1-LITE:

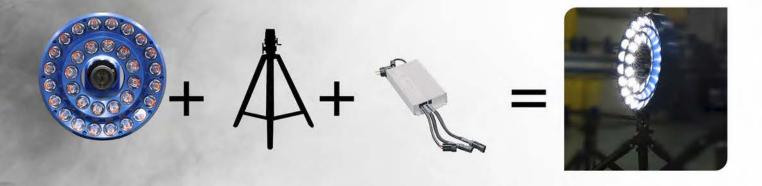
- Compact 7" x 6" x 2"
- 600 watt output
- On/Off control
- Powers one light module



PS1 - PS3:

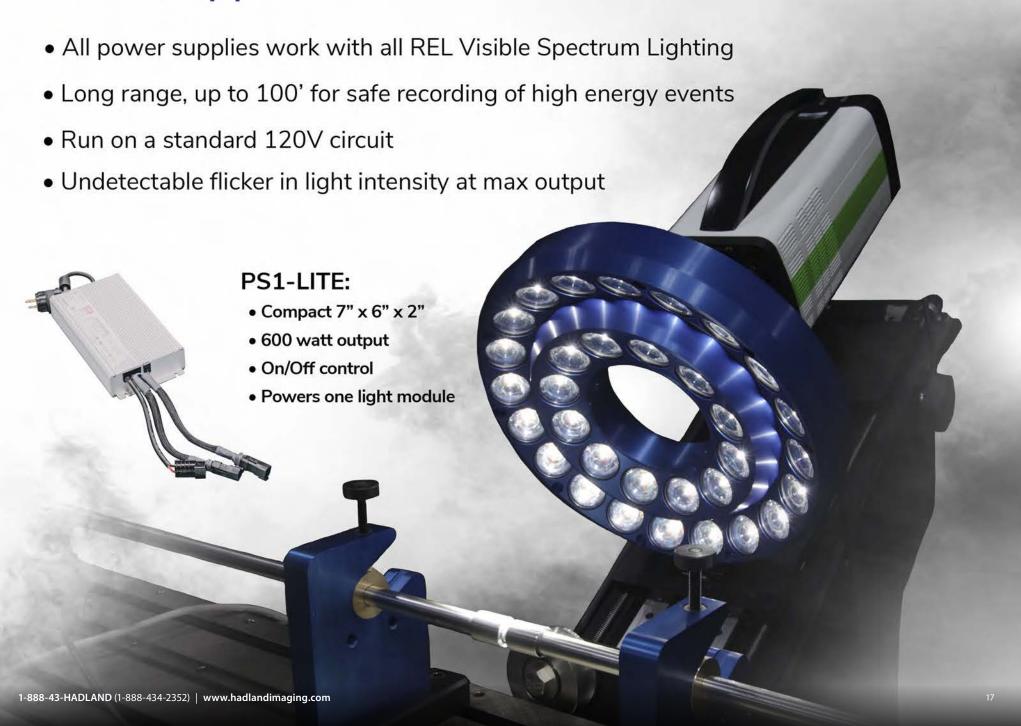
- 15" x 7" x 10"
- 600-2400 watt output
- BNC trigger port
- 10-20 second burst output 4X Power (PS3)

Ring Light options to buy





Power Supplies



LED Visible Spectrum Lighting

Profusion X

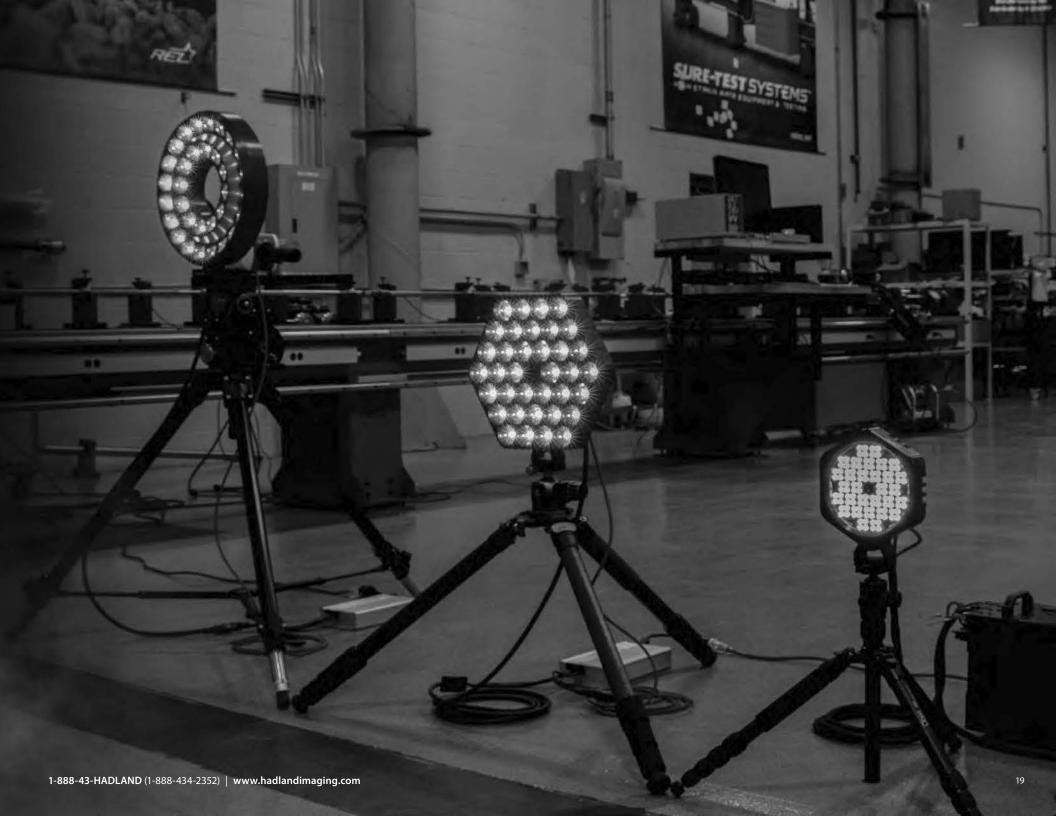
Ring Light

FLC-MOD









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For more information Call 1-888-43HADLAND (1-888-434-2352) or email sales@hadlandimaging.com about ultra high-speed visible, infrared & Flash X-ray imaging solutions. REL on the web: www.relinc.com

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