

▶ PRODUCT DESCRIPTION

Sciencetech's large area Highly Collimated Flash Solar Simulator is capable of illuminating targets of 1.8 x 1.5m (or 1.5m diameter) with uniform solar illumination. Our flash system is manufactured to achieve Class AAA by ASTM standards for targets within that area (IEC and JIS are available upon request). This makes our system one of the largest, most uniform solar simulators currently available on the market.



▶ SCIENCETECH



To Service the New Product Development Market in the Field of Optics and Spectroscopy with Dedication, Integrity, and Excellence.

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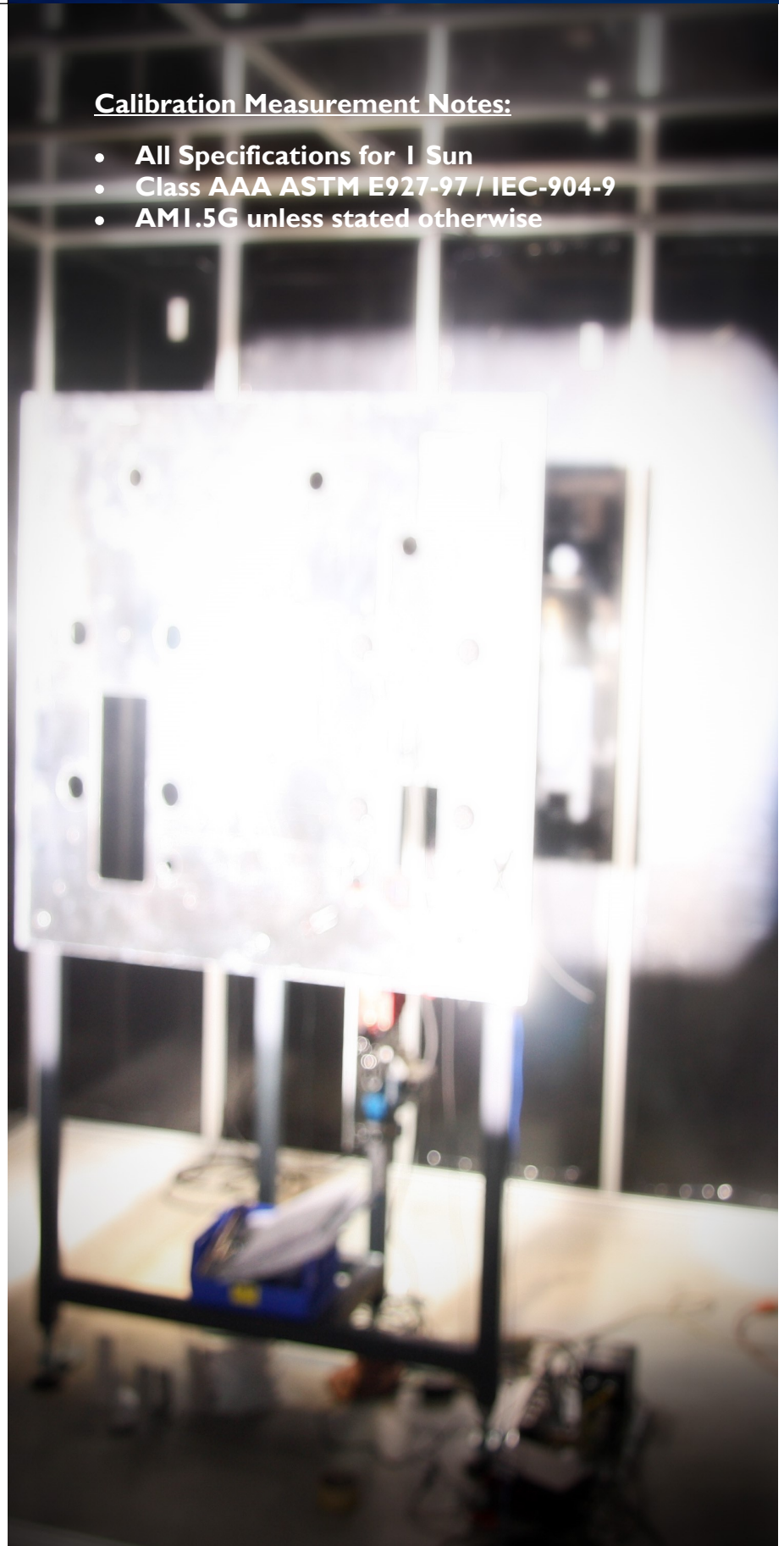
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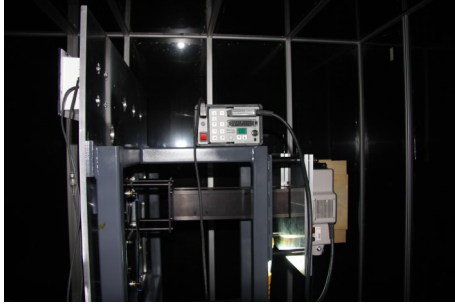
Calibration Measurement Notes:

- All Specifications for 1 Sun
- Class AAA ASTM E927-97 / IEC-904-9
- AMI.5G unless stated otherwise

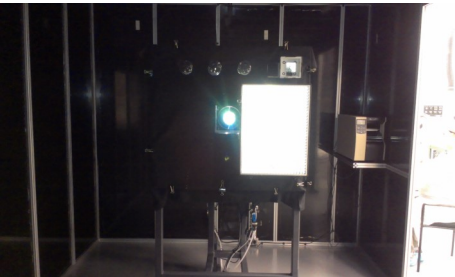


▶ Large Area Pulse Solar Simulator

PROJECTOR AND MIRROR



CUSTOM INSTALLATIONS



Specifications

Specification	Value
Illumination Area	Up to 1.8 m x 1.5 m
Working Distance	5 m or more
Collimation	+/- 0.5% degrees
Temporal Instability	10% (+/-5%) over 1 ms
Temporal Instability Classification	Class A
Lamp Power Range	0.5-1.3 Suns in steps
Lamp Type	Helicoidal 4800J Bulb
Lamp Lifetime	Varies with Power: Average 25,000 flashes
Time Between Flashes	Varies with Power: Average 10-30 Seconds
Flash Duration	2 ms
Cooling Mechanism	Air Cooled

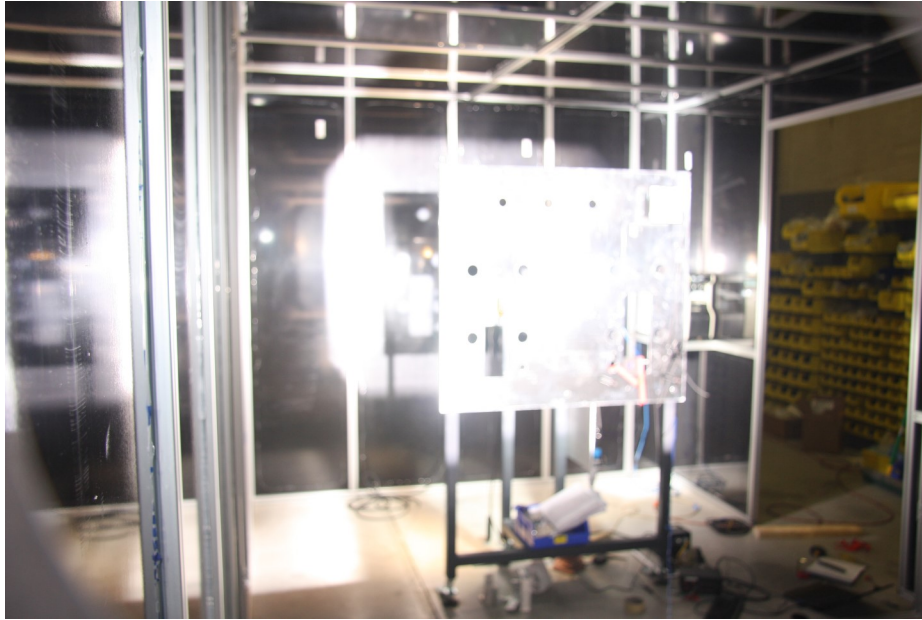
Capable of achieving collimation angles of 0.5 degrees, the Highly Collimated Flash Solar Simulator allows testing of Concentrated Photovoltaics (CPV) and other photovoltaic technologies that require an extremely high degree of collimation with fast response times.

Coupling our proprietary Sciencetech Concentrator to an optical projection system allows us to provide unmatched uniformity and power on target, as well as the flexibility to modify the system to your precise specifications.

Talk to one of our Technical Sales Personnel if you need a larger area of illumination, higher power, increased collimation, or an extended spectral range for your solar testing system.

▶ Large Area Pulse Solar Simulator

CUSTOM CELL TESTING SOLUTIONS



APPLICATIONS

Applications Include:

- Concentrated Photovoltaic panel testing
- Monocrystalline / polycrystalline silicon panel testing
- Multijunction Solar Cells / Panels
- Industrial Quality Control
- New Product Research and Development

Components	
Dimensions (LxWxH) of lamp housing	1.0 x 0.5 x 0.5 m
Dimensions (LxWxH) of Mirror with Holder	2.0 x 0.4 x 2.0 m
Dimensions (LxWxH) of System Footprint	6.0 x 4.0 x 2.0 m
Weight of Lamp	20 kg
Weight of Mirror	225 kg

Optional Component:
Test Room for System Enclosure
IV Test Equipment
Extended Range Spectral Filters
Calibrated Reference Cells
110V /220V Power Supply



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