

▶ 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

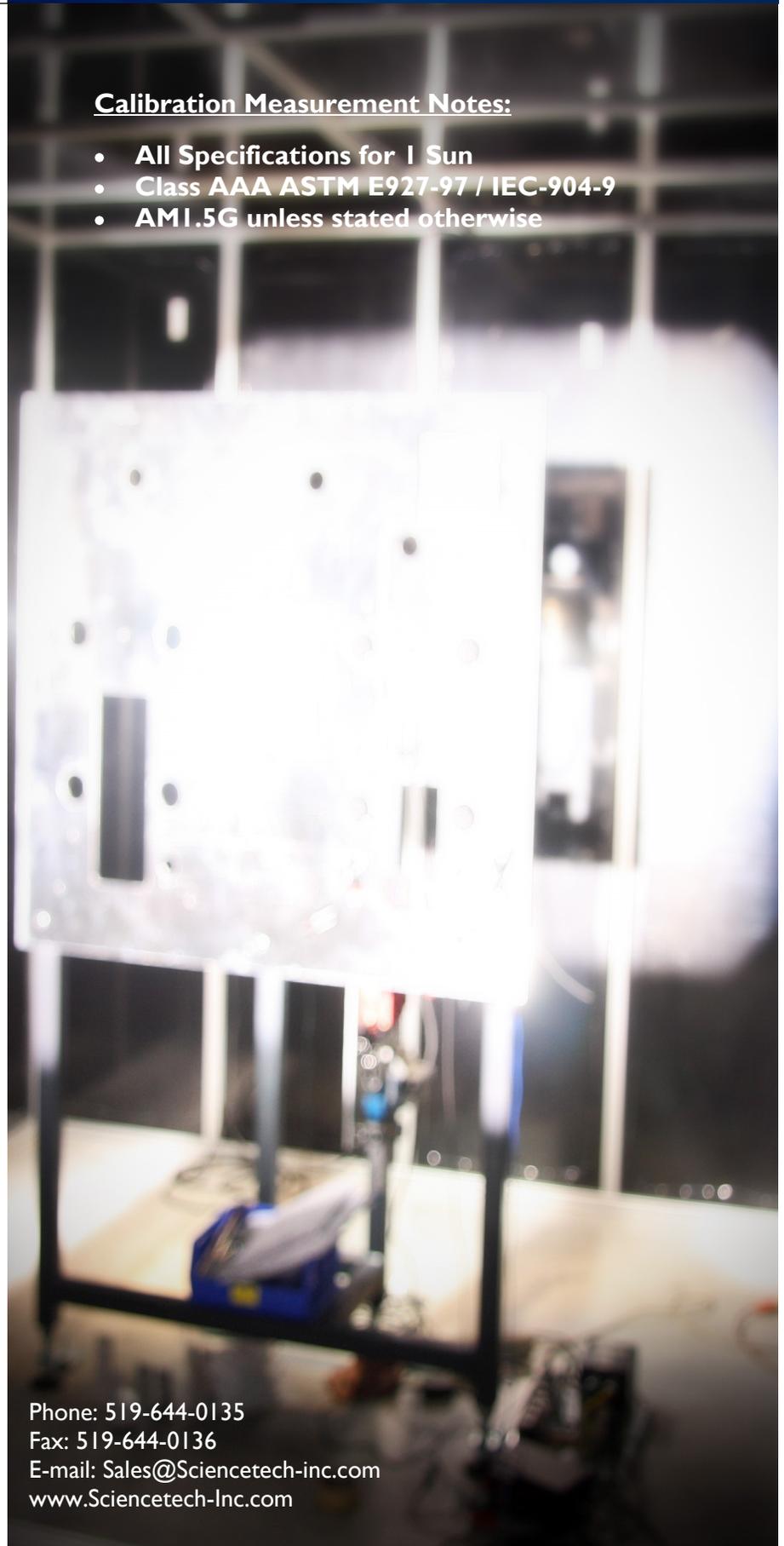


To Service the New Product Development Market in the Field of Optics and Spectroscopy with Dedication, Integrity, and Excellence.



Calibration Measurement Notes:

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



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▶ Large Area Pulse Solar Simulator

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 |

PROJECTOR AND MIRROR



CUSTOM INSTALLATIONS



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.

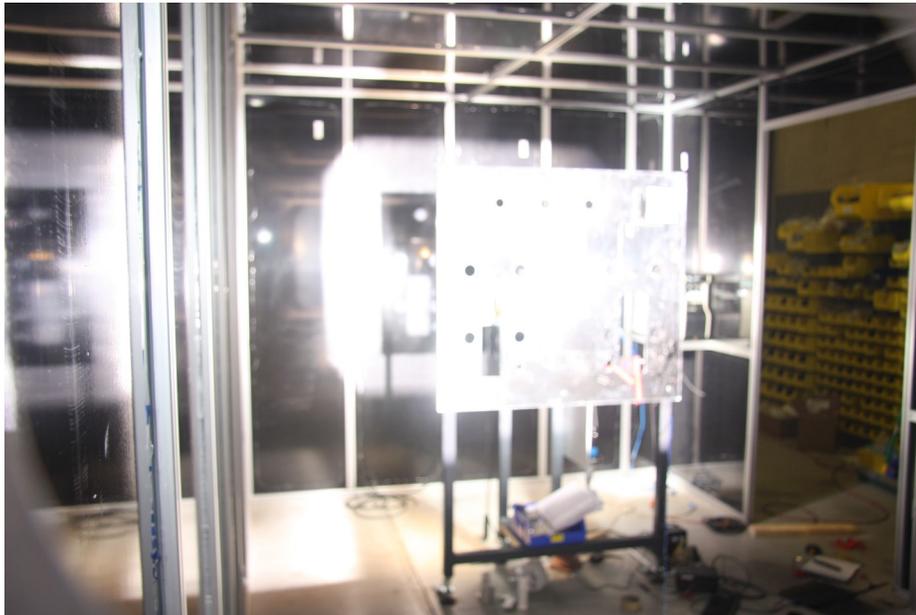


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CUSTOM CELL TESTING SOLUTIONS



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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