

ST-100: Spectrometer



Measures spectral output of solar simulators using a high speed, low cost method.

Filter wheel spectrometer to classify light source for Sinton solar cell and module testers.

Product Overview

The ST-100 spectrometer has been designed to characterize the spectral output of a solar simulator using a high speed, low cost method. This solution has been optimized to be portable and rugged with a high signal-to-noise ratio and exceptional time resolution for the characterization of flash testers. It can characterize a light source at all light intensities in a single measurement. This solution is perfect for a fast and easy check of a solar simulator spectrum and is optimized for use to characterize the spectrum of the Sinton Instruments FCT-450 cell tester and FMT series module testers or other xenon flash testers.

ST-100 System Capabilities

Primary applications:

- Characterize spectral output of a solar simulator

Advanced spectral characterizations:

- AM1.5 – Global
- AM1.5 – Direct

Measurement modes:

- Flash Light Source
- Continuous Light Source

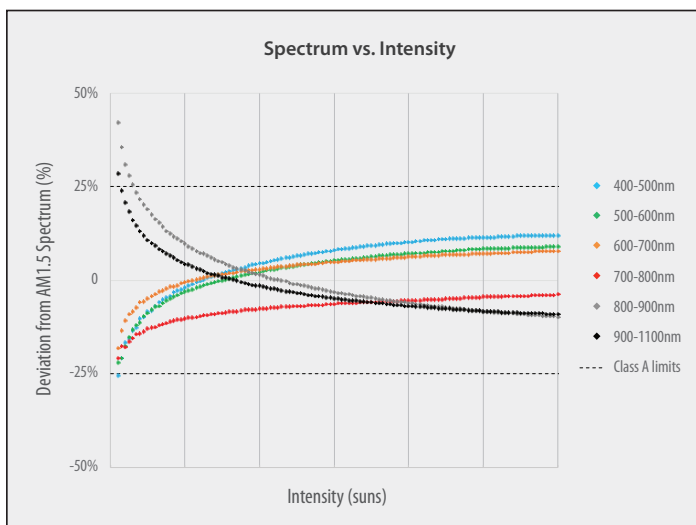


Figure 1: The software interface displays the spectrum at each intensity level measured

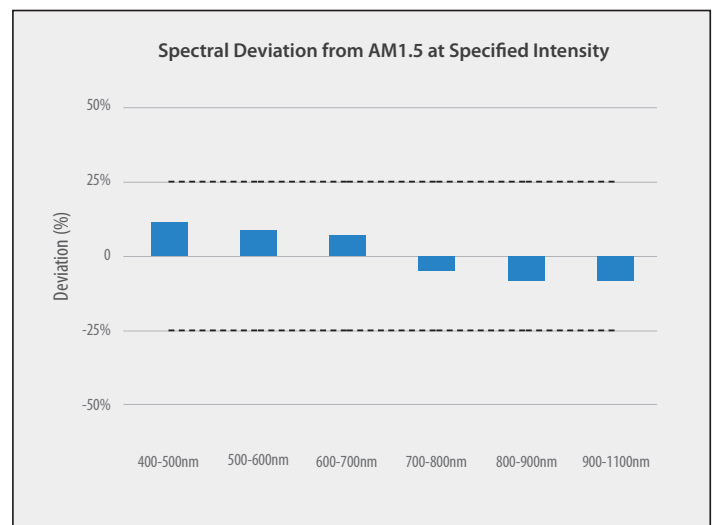


Figure 2: The software displays the spectral deviation from AM1.5 at the specified intensity (generally 1-sun).

Specifications

Instrument Specifications

Available measurements

- Spectrum classification: "A+," A, B, C, or unclassified according to IEC 60904-9:2007 methodology
- Spectrum vs. intensity for flash testers with varying intensity

Measurement modes

- Flash light source
- Continuous light source

Intensity range

- 0–2 suns

Warranty

- One-year limited warranty on all parts and software
- Service agreements also available



Facility Requirements

Ambient operating temperature

- 20°C–25°C

Power requirements

- 5 W

Dimensions

- Instrument: 17.2 cm x 17.2 cm

Universal mains voltage

- 100–240 VAC 50/60 Hz

ST-100 Components

- ST-100 spectrometer
- Sinton Instruments ST-100 software
- For use without a Sinton Instruments' I-V tester, will include: high-resolution, high-speed data acquisition with simultaneous sampling

Purchasing Information

For a quote, please contact quotes@sintoninstruments.com

We are happy to accommodate custom requirements. Please inquire about your specific needs.

Quotes are valid for 60 days.

For our full product line, visit our website at: www.sintoninstruments.com

