



Material Testing Systems



Super Acceleration UV Weathering Chamber

- EYE metal halide based high output UV lamp delivers 10 times acceleration of typical weathering chambers.
- Correlated acceleration factors up to 100 times natural solar UV irradiation provides efficient extended outdoor exposure evaluation testing.
- Spectral filtering cuts UV irradiation below 295nm to replicate natural sunlight.
- Electronic feedback system ensures constant energy to target material.
- Built-in datalogger for data storage and simple transfer to common programs such as MS-Excel.
- Fully programmable including temperature humidity, rainfall, UV power, and custom cycle setup.

Applications

- Pigment, Polymer, Development Testing
- Outdoor Product Material Life Testing
- PV Material Durability Testing
- Small PV Module Testing

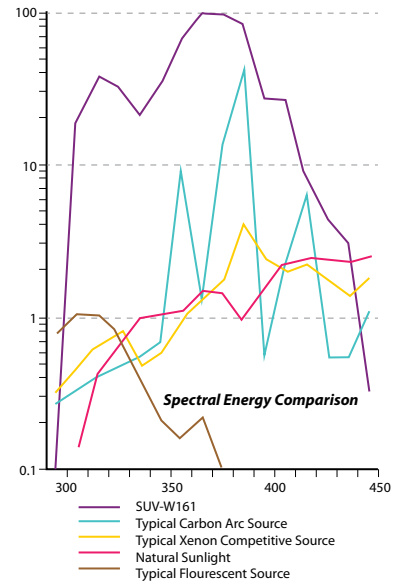
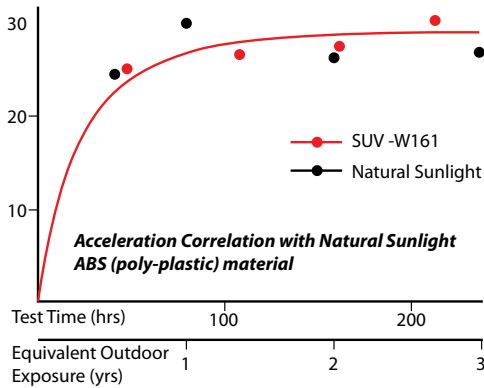


Super Acceleration UV Weathering Chamber

Part #	Description
93760	SUV-W161 Super UV Solar Simulation Weathering Chamber

Basic Specifications

- **UV Solar Lamp:** EYE proprietary metal halide UV lamp with water cooling jacket
- **Spectrum Class:** Filtered UV 295 nm – 450 nm
- **Effective Irradiation Area:** 190 mm (7.5 in) x 422 mm (16.5 in)
- **Weathering Functions:** Irradiation Power, Temperature, Humidity, and Rainfall (shower); cycle and durations are programmable
- **Test Duration:** Programmable from 0.1 hr to 9999.9 hrs
- **Data Acquisition:** Built-in datalogger with CF card for data transfer (csv) to MS-Excel or equivalent programs
- **UV Irradiation Power:** Programmable, up to 1500W/m²; feedback controlled by internal UV irradiation sensor
- **UV Irradiation Distribution:** Uniformity ratio ≥ 90%
- **Temperature Control:** Irradiation period 50°C to 85°C Pause period 35°C to 75°C (with ambient at 20°C)
- **Humidity Control:** 40-90% (dependent on BP temperature)
- **Cycle Control:** Continuous irradiation or programmable cycle operation; (1) Continuous irradiation; (2) Irradiation > pause; (3) Irradiation > condensation; (4) Irradiation > condensation > pause; (5) Irradiation > pause > condensation
- **Lamp Life:** Approximately 1500 hours
- **Input Power (max):** Three phase 208V AC; 21kVA; max 65A
- **Dimensions:** 1800mm (70.8 in) H x 1400mm (55.1 in) W x 1200 mm (47.2 in) D
- **Weight:** Approximately 700 kg (1540 lbs)
- **NOTE:** chamber requires external water purifier (deionizer) and external chiller (approximately 3.5 ton)



EYE Lighting/Iwasaki Electric solar lighting experience provides the expertise to assist you in the development of solar simulation systems specific to your application requirements.

We welcome the opportunity to work with you to solve your application requirements.



**EYE LIGHTING
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