



UV Accelerated Weathering Tester



Haida International Equipment

– Environment Test System

Don't guess before you test

Function:

Meet Specifications

- * Meet customer requirements
- * Stay ahead of government regulations

Prevent Field Failures

- * Improve quality and durability
- * Enhance reputation
- * Assure product performance

Gain a Competitive Edge

- * Save on material costs
- * Expand product lines
- * Enter new markets
- * Outrun the competition

About Product

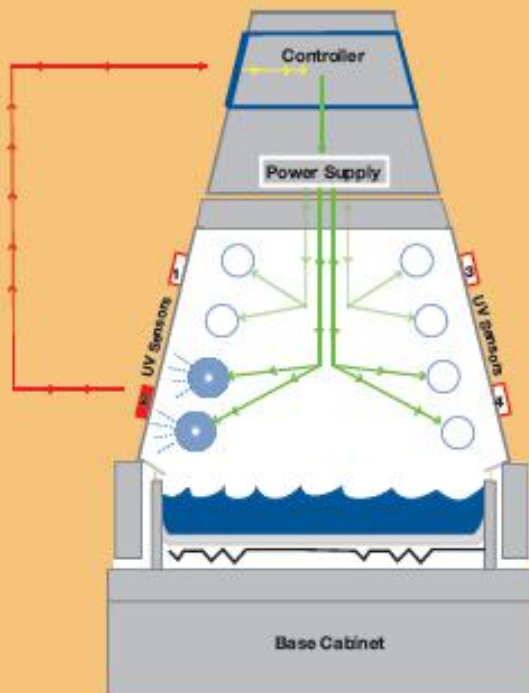
[UV Weathering Test Chamber](#) can simulate the sun, rain spray and condensation resulting damage to test the materials by exposure to sunlight with moisture and temperature.

This test machine can get the results of damage after several days or weeks which is equal to expose to outside for a few months. The damages include fading, discoloration, brightness down, powder, crack, blur, brittle, strength decreases and oxidation. It provides the reference with testing data for improvement of existing materials, or to assess the impact of changes in product durability and other aspects.

How it Works

With the SOLAR EYE's automatic feedback loop system, the irradiance is continuously monitored and precisely maintained.

During the UV cycle, built-in sensors measure the light from each pair of lamps and transmit this data to the controller.



The controller compares the measured irradiance to the set point.

Then the controller instructs the power supply to adjust the current to the lamps to maintain the set point.

UV Tester complies with below design criteria:

General:

- ASTM G151
- ASTM G154

Coating:

- ASTM D3794
- ASTM D4587
- ISO 11507
- ISO 20340

Adhesive:

- ASTM C1184
- ASTM C1442
- ASTM D904
- ASTM D5215

Plastic:

- ASTM D4329
- ASTM D4674
- ASTM D5208
- ASTM D6662
- ISO 4892-3 ...

Product specification:

Inner chamber Size	40W×114D×38Hcm	Customized
Outside dimension	50W×130D×146Hcm	
Materials	SUS#304 stainless steel (Internal and external)	
Temperature range	RT+10~70℃	
Temperature uniformity	±1℃	
Temperature fluctuation	±0.5℃	
Temperature control	PID SSR control	
Humidity range:	≥90%RH	
Controller	PLC controller	
Control mode	Balance temperature humidity control (BTHC)	
Test cycle setting	Illumination, condensation and water spray test cycle is programmable	
Lamp power	40W/Piece	
Distance from sample to lamp	50±3mm (adjustable)	
Centre distance between the lamp	70mm	
Irradiance	1.0W/cm ²	
Wavelength ultraviolet light	UV-A: 315-400nm UV-B: 280-315nm	
Lamp lifetime	1600hrs	
Effective irradiation areas	640×1140mm	
Illumination temperature range	50℃~70℃	
Condensation temperature range	40℃~60℃	
Black panel temperature	30℃~80℃	
Standard Specimen Size	75×290mm (24pcs) or 75×150mm (48pcs), or can be customized	
Testing time	0~999H, adjustable	
Power	AC220V±10%, 50/60Hz, single phase, 5KW	
Protection system	Overload short circuit protection, over temperature protection, water lacking protection	
Q-test Controller		



Programmable LCD controller, can do cyclic test with temp, humid, water spray and condensation.

UV lamps



UV-A and UV-B lamps for option

Sample Holder



Test specimens are mounted on both the front and back side of the UV Tester, providing a large sample capacity. Sample holder can be customized.

How to Contact Us?

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