

# UV WEATHEROMETER SPECIFICATIONS

Model No. : UV1000S

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Using 100mW 275nm UV-C

Stainless Steel Fan Guard

Copper Heatshink

Top View of the Weatherometer

## UV WEATHEROMETER

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#### 1. Description

Our UV Weatherometer is a square enclosure meant for exposing materials or samples under UV light. This weatherometer allows for safely conducting exposure tests of harmful UV-C radiation. The UV source we use is our 3X3 module which includes 9 of LEDs, 100mW LEDs totalling to just about 1W of UV light and is driven by an internal UL recognized power supply.

#### 2. Features

- Our weatherometer is made with UV resistant acrylic to protect the user from UV exposure.
- Utilize high powered UV LEDs, eliminating need for dangerous Mercury tubes.
- It comes with a removable lab jack to place your samples on in order to adjust height and exposure.
- Ascending front panel for placing samples in the exposure area.
- Uses Copper PCB which utilizes thermoelectric separation technology to optimize heat transfer of high powered LEDs.
- Our module is installed with an Copper heatsink and fan for thermal management.
- Rubber feet used for anti-vibration.

### 3. Operating Procedures

- 1) Turn the ON/OFF switch to the OFF position.
- 2) Place the sample under test on the sample plate via the sliding panel.
- 3) Adjust the distance of the sample plate to the light source by turning the adjustment knob to the desired distance according to the scale marked on the box. Refer to the picture below.
- 4) Plug in the AC power cord and notice the fan is running.
- 5) Turn the ON/OFF switch to ON, and note the LEDs are lit up.
- 6) Testing of the sample is now in progress.
- \* When testing is done, make sure to turn the ON/OFF switch to OFF, then unplug the AC line power cord.

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#### 4. Benefits / Uses

- Accelerated UV exposure
- Microbiological testing
- Disinfection
- Photolithography
- Quality assurance of products and/or materials

#### 5. Electrical characteristics

UV1000S of LEDs	9
Package Size	6060 (6mm x 6mm)
Total Optical Power	900mW
Wavelength	275nm
Beam angle	110 degrees
Forward current	700mA
Forward voltage	49.2A
Power Consumption	34.4W
Module Size	60mm x 60mm

#### 6. Spectrum



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#### 7. Modules: UV-C 6060

#### 1) Features

- Lighting Color(Peak Wavelength) : 275nm
- Surface Mount Type : 6.0 × 6.0 × 1.35 (L×W×H) [Unit : mm]
- Viewing Angle(Directivity): Typical 125°
- Soldering Methods : Reflow Soldering

#### 2) Specification

Category	Optical Characteristics					
	Wavelength (nm)	Optical Power (mW)	Beam Angle (Degree)	Size (L x W x H)		
6060	275	900	125°	6.0 x 6.0 x 1.35 (mm)		

#### 3) Applications

		Applications						
Modules	Wavelength (nm)	Industrial Applications (Curing, Printing)	Photo Catalysis	Exposure Machine	Bio/ Medical	Air/Water Purification	Sterilization	Food Preservation
UV-C	275	0			0	0	0	0

### 8. Mechanical characteristics

1) 3D Rendering View



\* Scale: NTS

