ACS Material Equipment Series

MetriTec™ UV Energy Meter

Contact Information:

ACS Material, LLC

Address: 959 E Walnut St., Suite 100

Pasadena, CA 91106, USA

Phone: (866) 227-0656

Fax: (781) 518-0284

E-Mail: contact@acsmaterial.com

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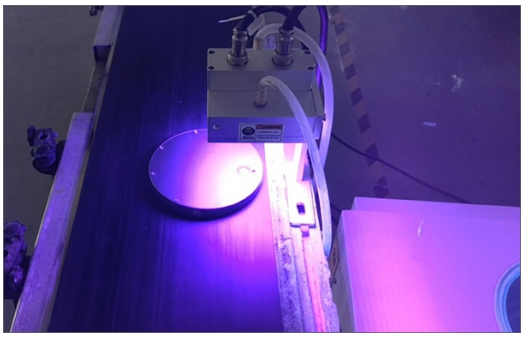
I. Product Overview

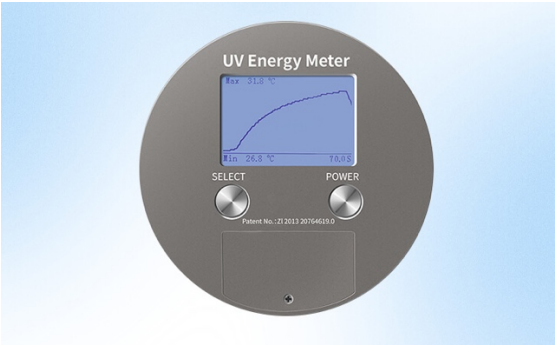
As a supplier of UV measurement solutions, ACS Materials offers a comprehensive range of UV Energy Meters designed for accurate measurement of UV intensity and energy in various applications, including UV curing systems, exposure machines, and process monitoring. Our UV energy meters are available in models tailored to specific UV light sources. They are categorized into two main types: (1) High-pressure mercury lamp UV meters – for traditional UV curing and exposure systems. (2) UV LED energy meters – optimized for the precise measurement of narrow-spectrum UV LED sources. These instruments provide reliable performance for quality control, equipment calibration, and process optimization across industries such as printing, electronics, coatings, and medical devices.



II. Product Features of the MetriTec™ UV Energy Meter Series

MetriTec™ UV Energy Meter M120 can not only measure energy, power, temperature and measuring time at the same time but also display the energy and power curves, export data and print test report. It has created many firsts in the UV energy meter industry:

- The first UV energy meter that can display the temperature curve
- The first UV energy meter can measure real-time temperature and power
- The first UV energy meter with a built-in timer that accurately records the curing time
- The first UV energy meter that can print a test report via a USB connection to a computer



MetriTec™ UV Energy Meter M128 is a professional UV energy meter for testing UV LED light sources and has various excellent achievements:

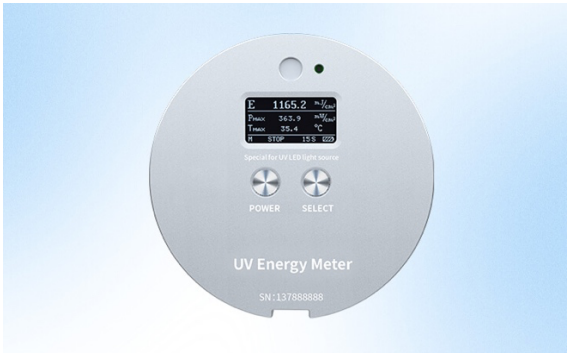
- The first UV energy meter for UV LED light source testing.
- The first wide-range UV energy meter with a range of 40W/cm².
- The first UV energy meter for a wide spectrum (340nm-420nm).
- The first UV energy meter that measures temperature and power at the same time and can display process curves.

Its spectral response range is 340nm-420nm and it can test various wavelengths of 365nm, 375nm, 385nm, 395nm, 405nm and other UV LED light source.

MetriTec™ UV Energy Meter M136 is a professional ultraviolet measurement tool for detecting UV energy and intensity in high pressure mercury lamp, halogen lamp and other light sources. It can be used to measure UV intensity, energy and temperature in a variety of UV curing machine, UV coating machine, exposure machine, dryer, printing machine and other equipment. The UV energy meter can be measured in narrow spaces with 7.6mm thick. Equipped with a high temperature protective cover, still operate in high temperature environment.

MetriTec™ UV Energy Meter M137 can simultaneously display UV intensity, UV energy and temperature value, suitable for measuring wavelength of 365nm, 375nm, 385nm, 395nm, 405nm and other UVALED light source. Mainly used for UV drying machine, curing machine, mobile phone UV coating machine, exposure machine, printing machine and other equipment of UV radiation intensity and energy detection. The instrument has a measuring range of up to 40000mW/cm2, and can measure UV intensity, energy and temperature at the same time. The UV energy meter can be

measured in narrow spaces with simple operation. Equipped with a high temperature protective cover, still operate in high temperature environment.



III. Product Specification

Model/SKU#	MetriTec™ UV Energy Meter M120/ ELUEM120	MetriTec™ UV Energy Meter M136/ ELUEM136	MetriTec™ UV Energy Meter M128/ ELUEM128	MetriTec™ UV Energy Meter M137/ ELUEM137
Application	High pressure mercury lamp		UV LED (365nm, 385nm, 395nm, 405nm, etc.)	
Measure band	UVA		UVA LED	
Spectral response	315-400nm，λp=365nm		340-420nm, calibrated at 395nm UV LED	
Power range	0-2000mW/cm²		0-40000mW/cm²	
Resolution	0.1mW/cm²		1mW/cm²	
PC software	√	×	√	×
Power value	√	×	√	×
Temperature	√	√	√	√
Dimension	Diameter 120mm * thickness 13mm	Diameter 102mm * thickness 7.6mm	Diameter 120mm * thickness 13mm	Diameter 102mm * thickness 7.6mm
Sensor Position	Back	Front	Back	Front

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