

UV POWER PUCK® FLASH Radiometer for pulsed type UV curing systems- FLASH & XENON



EIT Instrument Markets radiometers, considered the standard of the UV industry, introduces an exciting new radiometer - specifically for measuring pulsed UV light.

The EIT Instrument Markets UV POWER PUCK® *FLASH* is a self-contained, electro-optic radiometer with fast advanced electronics capable of accommodating the very rapid rise and fall times of the pulse, integrating the total UV energy, and displaying that information for each of the process-relevant UV bands. The UV POWER PUCK® *FLASH* radiometer is used to measure the energy of pulsed or flash lamp UV curing systems in the 100-120 pulse per second range.



The UV POWER PUCK® *FLASH* combines compact size and robust design to withstand the extremes of UV curing production environments while providing accurate and repeatable measurements, and is end user friendly with a simple to use single button for normal operation.

The carefully designed optical sensing systems only measure wavelengths that are relevant to the UV process. The output of the sensing system is converted to digital form and displayed on an easy-to-read OLED display.

Standard Features and Benefits Include:

Easy to Use. Single Button for On/Off and Run

Easy to Read Data Display of All 4 Bands. The UV Power Puck® *FLASH* radiometer simultaneously measures four different ranges of ultraviolet wavelengths with one pass through the UV process. The UV Power Puck® *FLASH* default wavelengths are UVA (320-390nm), UVB (280-320nm), UVC (250-260nm) and UVV (395-445nm). The collected total energy readings are then displayed on one easy to read screen for the operator.

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Setup Function

Provides user selectable instrument default modes for data analysis and comparison, screen, and operational settings. Soft buttons are used for function selections, and are indicated on the bottom of the display for easy operator selection and use.

Graph Mode

A graph illustrating the accumulated energy impinged on the work piece as a function of time.

Reference Mode

Provides a comparison between readings, and can be used as a go-no go indicator for the operator, and for system setup and troubleshooting. The user can store the selected UV reading in the radiometer as a base line or reference reading, and then compare that reading to another. The radiometer will display both readings and indicate the percentage of change between readings. Data is displayed in mJ/cm^2 and % (percentage).

Unit of Measure

How the collected data is displayed is user selectable to provide ease of reading for operators. Display the data as you want to see it. Selections are: J/cm^2 , mJ/cm^2 , $\mu\text{J}/\text{cm}^2$.

Colorful, Easy to Read Display

Select low, medium, or high intensity for the graphical display.

Communications Software (Optional)

Serial communications protocol between unit and PC via serial port or USB port. Download collected data to a computer for statistical analysis and data logging.

Specifications (Specifications subject to change without notice)

Display	Easy to Read, Yellow Text on Black Background
Range	2 mJ/cm^2 per pulse; 100-120 pulses per second systems
Accuracy	+/- 10%; +/- 5% typical
Spectral Ranges (UV POWER PUCK® FLASH)	4-channel simultaneous and continuous monitoring. 320-390nm (UVA), 280-320nm (UVB), 250-260nm (UVC), 395-445nm (UVV)
Spatial Response	Approximately cosine
Operating Temperature	0-75°C Internal temperature; tolerates high external temperatures for short periods (audible alarm indicates when temperature has exceeded tolerance)
Time-Out Period	2 minutes DISPLAY mode (no key activity).
Battery	Two user-replaceable AAA Alkaline Cells
Battery Life	Approx. 20 hours with display on
Instrument Dimensions	4.60 x 0.50 inches; 117 mm x 12.7 mm (D x H)
Weight	10.1 ounces (289 grams)
Instrument Construction	Durable and Rugged Aluminum and Stainless Steel Housing
Package Material	Aluminum, stainless steel
Carrying Case Material	Cut polyurethane interior, scuff resistant nylon exterior cover
Carrying Case Weight	9 ounces (260 grams)
Carrying Case Dimensions	10.75 x 3.5 x 7.75 inches; 274 x 89 x 197 mm (W x H x D).

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