

# UV Power Puck Radiometer

Compact-disc sized radiometer ideal for determining radiation energy within conveyerized UV curing systems



The highly versatile **UV Power Puck Radiometer** can simultaneously measure four different UV wavelength ranges for use in total process control and narrowly focused UV research applications.

Automatically displayed measurements include total UV energy dosage (in millijoules/cm<sup>2</sup>) and peak intensity (in watts/cm<sup>2</sup>). After pushing a button, the user can scroll a menu to access and display data for each of all four bandwidths: UV-A (320-390 nm), UV-B (280-320 nm), UV-C (250-260 nm), and UV-V (395-445 nm). This allows the operator to determine not only precise energy output of the UV source, but also how that energy is delivered; that is, what intensity at what wavelength. Through regular use of the Power Puck, acceptable cure levels can be recorded and repeated successfully over time.

## Operation:

1. Push "Reset" button and send the unit through the stationary or conveyerized curing system.
2. Data is accumulated when UV energy encountered is greater than its 5mW/cm<sup>2</sup> threshold.
3. After passing through the process, the results are accessed by touching the "Select" button to scroll through a simple menu.
4. Measurements displayed:
  - UV bandwidth monitored
  - Total UV energy in millijoules/cm<sup>2</sup>
  - Peak UV intensity in watts/cm<sup>2</sup>
  - "Lo Batt" condition

## Features:

- Selectable data displays for total energy and four different UV wavelengths
- Self-contained, battery-operated
- Low battery indicator
- Replacement lithium batteries
- Complete with foam-lined protective carrying case

## Specifications:

- Range: 5mW/cm<sup>2</sup> - 5W/cm<sup>2</sup>
- Display: 4 digit LCD
- Total Energy: 0 - 250 Joules/cm<sup>2</sup>
- Peak Intensity: 0 - 5 watts/cm<sup>2</sup>
- Four Bandwidths: UV-A (320-390 nm), UV-B (280-320 nm), UV-C (250-260 nm), and UV-V (395-445 nm)
- Lo Batt Indicator
- User Interface: Push button allows user to obtain data from all display modes in each of the four spectral ranges.
- Accuracy: +/-5% typical; 10% guaranteed
- Spatial Response: Approximately cosine
- Operating Temp.: 0 - 80 degrees C internal. The UV Power Puck will tolerate much high external temperatures for short periods. A safety audible alarm will sound if internal temperature rises above a safe level.
- Time-Out Period: Approx. 4 min. RUN mode; 2 min. DISPLAY mode
- Batteries: Two user-replaceable lithium cells, Duracell DL2450, Sanyo CR 2450 or equivalent
- Battery Life: Over 1500 readings with typical use
- Dimensions: 4.60" diameter x .50" high (117mm x 12.7 mm)
- Weight: 11.75 oz (333.11 grams)
- Package material: Stainless steel and aluminum

**Item No.**  
M007-040

**Description**  
UV POWER PUCK RADIOMETER

## 24-HOUR PRODUCT SERVICES

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