

# EIT RADIOMETER POWERMAP II

## Introduction



The **PowerMAP II** is a profiling UV radiometer designed by EIT 2.0 LLC for measuring **broadband UV sources** across four spectral regions (UVA, UVB, UVC, UVV). It captures:

- **Irradiance** (W/cm<sup>2</sup>)
- **Energy Density** (J/cm<sup>2</sup>)
- **Irradiance Profile** (power vs time)
- **Temperature Profile** (°C vs time)

This compact, one-piece unit is 60% smaller than the original PowerMAP and features **increased memory capacity** for extended data collection.

## Physical Specifications

- **Size:** 5.5” x 2.1” x 0.55” (139.7 mm x 53.34 mm x 13.97 mm)
- **Weight:** 207 g (7.3 oz)
- **Materials:** Aluminum & Stainless Steel
- **Design:** Compact, rugged one-piece construction

*\*Specifications are subject to change without notice.*

## Technical Features

### ►Spectral Responsivity

Band	Range
UVA	320–390 nm
UVB	280–320 nm
UVC	250–260 nm
UVV	395–445 nm

## Dynamic Ranges

- **High Range:** 10 W/cm<sup>2</sup>
- **Low Range:** 100 mW/cm<sup>2</sup>
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## Recommended Operating Ranges

- **High Range:**
  - UVA/UVB/UVV: 100 mW/cm<sup>2</sup> – 10 W/cm<sup>2</sup>
  - UVC: 10 mW/cm<sup>2</sup> – 1 W/cm<sup>2</sup>
- **Low Range:**
  - All bands: 1 mW/cm<sup>2</sup> – 100 mW/cm<sup>2</sup>

## Performance

Parameter	Value
Accuracy	±10%; typically ±5% plus ±0.2% full scale
Repeatability	Typically ±2–5%; better than 2.0% for the unit alone

## Battery & Power

- **Battery Life:** ~100 minutes (typical)
- **Charging Time:** ~90 minutes with smart charger
- **Charging Options:** Smart charger or USB
- **Pause Mode:** Up to 8 pauses before data download
- **Auto Power Down:** 2 minutes of inactivity in standby

## Temperature Measurement

- **Sensor:** J-type thermocouple (included)
- **Sampling Rate:** 32 Hz
- **Internal Operating Temp:** 0–75°C
- **Over-temp Alarm:** Audible warning if upper limit exceeded

## Data Acquisition

- **Memory Capacity:** 65 minutes @ 2048 Hz
- **Sampling Rates:** Adjustable (128–2048 Hz)
- **Spatial Response:** Lambertian (cosine-like)

## Calibration

- Supplied with NIST-traceable calibration certificate

## PowerView III Software

- Compatible with PowerMAP II, LEDMAP, Profiler, Power Puck II, UviCure Plus II, and LEDCure II
- **LabVIEW-based**, runs on Windows 7–10
- **File format:** \*.tdms (National Instruments format)
- **Features:**
  - Graphical & numerical data views
  - Comparison of multiple files
  - Export to Excel
  - Notes, screenshots, process annotations
  - USB data download

## Included Accessories

- PowerMAP II Instrument
- Smart Charger
- J-type Thermocouple
- USB Cable
- USB Flash Drive (with software & manual)
- Carrying Case with foam interior

Authorised distributor:

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