







# EIT® PowerMAP® II / LEDMAP™ / UV PowerView Software® III Product Specifications

## Shared Physical Characteristics: PowerMAP II & LEDMAP

<b>Unit Dimensions</b>	5.5" x 2.1" x 0.55" / 139.7mm x 53.34mm x 13.97mm (LWH)
<b>Materials</b>	Aluminum & Stainless Steel
<b>Instrument Weight</b>	7.3 ounces (207 grams)
<b>Carrying Case, Ship Kit</b>	Supplied with carrying case, cut polyurethane foam interior, scuff resistant nylon exterior cover, USB cable and USB drive with PowerView III software/manual
<b>Time-Out Period</b>	2 minutes from Standby Mode (Red Flashing LED) with no button activity
<b>Battery/Battery Life</b>	Rechargeable Smart charger provided with unit recharges in fast mode (+/- 90 minutes). Charge speed on USB ports varies depending on the computer USB port. Battery life: 100 minutes typical
<b>Memory Capacity</b>	65 minutes of data collection time
<b>Sample Rate Adjustment</b>	User adjustable from 128-2048 Hz (128-256-512-1024-2048)
<b>Operating Temperature</b>	0-75°C Internal temperature; withstands high external temperatures for short periods (Audible alarm indicates when temperature has exceeded upper limit )
<b>Thermocouple</b>	Supplied with J type Thermocouple, effective sample rate of 32 Hz
<b>Spatial Response</b>	Approximately Cosine "Lambertian"
<b>Calibration</b>	Supplied with NIST traceable calibration certificate

## PowerMAP II Optics & Performance

<b>Spectral Response</b>	UVA: 320-390nm UVB: 280-320nm UVC: 250-260nm UVV: 395-445nm
<b>Dynamic Ranges</b>	10 W/cm <sup>2</sup> High Range 100 mW/cm <sup>2</sup> Low Range
<b>Suggested Operating Ranges</b>	High Range: UVA, UVB, UVV: 100mW/cm <sup>2</sup> to 10W/cm <sup>2</sup> /UVC - 10mW/cm <sup>2</sup> to 1W/cm <sup>2</sup> Low Range: UVA, UVB, UVC, UVV: 1 mW/cm <sup>2</sup> to 100 mW/cm <sup>2</sup>
<b>Accuracy</b>	+/- 10%; +/- 5% typical plus ±0.2% of full scale Typical ±5% or better
<b>Repeatability</b>	± 2-5% typical; Dependent on source and equipment (conveyor) stability, unit alone better than 2.0%

## LEDMAP Optics & Performance

<b>Spectral Response</b>	L365: 340-392 nm; ±2 nm (FWHM, 52 nm); 4 OD Blocking L385: 360-412 nm; ±2 nm (FWHM, 52 nm); 4 OD Blocking L395: 370-422 nm; ±2 nm (FWHM, 52 nm); 4 OD Blocking L405: 380-432 nm; ±2 nm (FWHM, 52 nm); 4 OD Blocking
<b>Dynamic Range</b>	40W/cm <sup>2</sup>
<b>Suggested Operating Range</b>	200 mW/cm <sup>2</sup> -40 W/cm <sup>2</sup> ; 0-250 J/cm <sup>2</sup> On static (shuttered) sources, readings down to 100 mW/cm <sup>2</sup> are possible
<b>Accuracy</b>	Typically ±2% or better; ± 10% of reading plus ± 0.2% of full scale
<b>Repeatability</b>	Typically better than 0.2% (unit alone); ≤ 1% max
<b>PowerView Software III</b>	National Instruments LabVIEW based programming designed for Windows 7-10. Collected data stored in LabVIEW based *.tdms files

This equipment is in conformity with the following standards and therefore bears CE marking: IEC 61326-1:2005, EN55011: 1998, EN61000-4-2: 1995, A1: 1998, A2: 2001; EN 61000-4-3: 2002, A1: 2002, following the provisions of the applicable directives: 98/34/EEC and amendments, 89/336/EEC and amendments.



## ABOUT EIT 2.0 LLC

EIT 2.0 LLC was formed in 2022 under the same ownership and key management team to focus and accelerate the development of EIT's proprietary UV measurement products. Originally established in 1977, EIT has provided engineering & contract electronic manufacturing services (EMS) for medical, industrial, analytical instrument, telecommunications and aerospace customers. EIT's UV measurement products which include radiometers and on-line measurement systems have been sold worldwide since 1986. Over 100,000 EIT products have been sold to measure LED, broadband and UV germicidal sources.

**EIT Products are designed and manufactured in the USA.**  
**Product Specifications Subject to Change without Notice**

**POWERMAP II LEDMAP SAL-B1004 Rev 01.00 January 2023**