

EIT RADIOMETER LEDCURE®

Introduction



The **LEDCure®** is a compact, battery-powered UV radiometer developed by **EIT 2.0 LLC**. It is designed specifically for industrial UV LED curing systems, providing **accurate and repeatable irradiance** (W/cm²) and **energy density** (J/cm²) measurements, **as well as a graphical irradiance profile**. Built for ease of use and field reliability, it features EIT's patented Total Measured Optical Response (TMOR) for precise absolute energy measurement.

Key Features

Feature	Description
Single LED Band	Choose one at time of purchase: L-365, L-385, L-395, or L-405
Easy Operation	Single push-button for power, measurement, and data viewing
Graph Display	Shows irradiance (W/cm ²) and energy (J/cm ²) over time
Reference Mode	Compare current run to a stored reference profile
Setup Options	Set display mode, sampling rate, brightness, and units (J/W, mJ/mW, μ J/ μ W)
User Replaceable Battery	Uses 2 \times AAA alkaline cells; approx. 20 hours battery life
Profiler Versions	Available for PC data transfer and deeper analysis via PowerView Software® III

Spectral Response Options

Band	Wavelength Range
L-365	340–392 nm (FWHM: 52 nm)
L-385	360–412 nm (FWHM: 52 nm)
L-395	370–422 nm (FWHM: 52 nm)
L-405	380–432 nm (FWHM: 52 nm)

Only one spectral band is selected at time of order

Operating Range & Accuracy

Measurement	Value
Irradiance Range	200 mW/cm ² – 40 W/cm ²
Energy Density Range	0 – 250 J/cm ²
Accuracy	\pm 2% typically, \pm 10% reading \pm 0.2% FS
Resolution	3 mW/cm ²
Repeatability	Typically better than \pm 0.2%, max \leq 1%

Sampling Rate Modes

Mode	Sample Rate	Description
Smooth ON	25 Hz	Matches legacy models
Smooth PROFILER	128 Hz	Recommended for most applications
Smooth OFF	2048 Hz	Best for capturing fast, high-frequency events

Display & Power

Feature	Value
Display Type	Yellow text on black background
Power Source	2 \times AAA alkaline batteries
Battery Life	~20 hours (display on)
Auto Timeout	2 minutes of inactivity

Construction & Dimensions

Feature	Value
Material	Aluminum and stainless steel
Dimensions	4.60 in \times 0.50 in (117 mm \times 12.7 mm)
Weight	289 g (10.1 oz)
Operating Temp	0–75°C with over-temp alarm
Spatial Response	Cosine (Lambertian)

Profiler Version

Feature	Value
Material	Cut polyurethane interior, nylon outer shell
Size	10.75 \times 3.5 \times 7.75 in (274 \times 89 \times 197 mm)
Weight	260 g (9 oz)

Carrying Case (Included)

Profiler models (Single or Four-Band) allow full data transfer to PowerView Software® III, including:

- Irradiance profile (W/cm² vs time)
- Total irradiance and energy density
- Analysis of LED array changes, comparisons, troubleshooting, and export to Excel

Display & Power

- Accuracy: Comparable to lab-grade systems (\pm 0.1–2.4% deviation)
- Resolution: 3 mW/cm² for a 40 W/cm² source (0.0075%)
- Matching: Within \pm 0.021% standard deviation (unit-to-unit)
- Repeatability: Better than \pm 0.2% run-to-run
- Calibration: Supplied with NIST-traceable certificate

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EIT RADIOMETER LEDCURE® PROFILER

Introduction



The **LEDCure® Profiler** is a compact, high-speed, single-band radiometer developed by **EIT 2.0 LLC** specifically for UV LED curing systems. It **measures and profiles irradiance** and **energy density over time** in **LED-specific spectral ranges**, making it ideal for production, lab, and R&D environments. It can also store and transfer irradiance profile data for in-depth analysis.

- **Single-band instrument** (UVA, UVA2, UVB, UVC selected at purchase)
- **Measures irradiance** (W/cm²) and **energy density** (J/cm²)
- **Shows irradiance profile** (W/cm² vs. time) on display and via software

Key Features

Feature	Description
LED-Specific Monitoring	Choose one LED band: UVA, UVA2, UVB, or UVC
Profiler Function	Stores irradiance/time data for USB transfer to computer
One-Button Operation	Simple use: Power on, pass through LED source, view/save results
Graph Display	Shows peak irradiance and total energy over time
Reference Mode	Store a baseline run to compare with current readings
Display Toggle	Switch between Graph and Reference screens
Setup Options	Change display mode, sampling rate, brightness, and units (J/W, mJ/mW, etc.)
Compact Size	Low profile to fit narrow LED curing spaces

Spectral Response Options (select one at time of purchase)

Band	Wavelength Range
UVA	320–395 nm
UVA2	380–410 nm
UVB	280–320 nm
UVC	250–280 nm

Dynamic Ranges (select one at time of purchase)

Range	Description
High (H)	40 W/cm ² – For high-output LED systems
Mid (M)	10 W/cm ² – For typical LED curing sources
Low (L)	1 W/cm ² – For low-intensity or narrow beam LEDs

Sampling Rate Modes

Mode	Effective Sample Rate	Description
Smooth ON	25 Hz	Matches older models, smooth graph display
Smooth PROFILER	128 Hz	Recommended – RMS peak values for analysis
Smooth OFF	2048 Hz	Captures fast, high-frequency LED fluctuations

Specifications

Spec	Value
Display	Yellow-on-black OLED display
Accuracy	±10% (typical ±5% ± 0.2% full scale)
Calibration	Supplied with NIST traceable certificate
Spatial Response	Cosine (Lambertian)
Operating Temp	0–75°C with over-temp alarm built-in
Battery	2 × AAA alkaline batteries (user-replaceable)
Battery Life	~20 hours with display on
Auto Timeout	Turns off after 2 minutes with no input
Dimensions	4.60 in x 0.50 in (117 mm x 12.7 mm)
Weight	289 g (10.1 oz)
Material	Anodized aluminum + stainless steel

**Specifications are subject to change without notice.*

Carrying Case Included

- Foam-padded interior, nylon outer shell
- Weight: 260 g (9 oz)
- Size: 10.75" x 3.5" x 7.75" (274 mm x 89 mm x 197 mm)

Profiler Version

- The Profiler variant allows:
- Data transfer to PC via EIT PowerView Software® III
- Export of:
- Numerical values (W/cm², J/cm²)
- Irradiance profile (W/cm² vs time)
- Comparison reports, Excel exports, and trend analysis

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EIT Radiometer

LEDcure® Four Band Profiler

Introduction



The EIT 2.0 On-Line Monitoring System delivers real-time UV intensity feedback **using durable Compact Sensors and DIN Rail units**. Ideal for LED or broadband sources, it ensures process **control in tight, fast, or hard-to-access environments**—helping you **maintain quality, reduce scrap, and catch issues before** they impact production.

General Specifications

Specification / Feature	Details
Product Name	LEDcure® Profiler and LEDcure® Profiler Four Band
Spectral Responses	• L365: 340–392 nm • L385: 360–412 nm • L395: 370–422 nm • L405: 380–432 nm
Operating Range	• 200 mW/cm² – 40 W/cm² and 0–250 J/cm² • 100–200 mW/cm² and 0–50 J/cm²
Accuracy	• Typically ±5% or better • ±10% of reading ±0.1–0.2% of full scale (system dependent)
Resolution	3 mW/cm²
Repeatability	Typically better than 0.2% (≤1% max)
Calibration	Supplied with NIST-traceable calibration certificate
Smooth Modes	• Smooth ON: 25 samples/sec • Profiler: 128 samples/sec • OFF: 2048 samples/sec
Sample Rate (Profiler)	128 samples/second
Memory Capacity	Stores over 100 minutes of data
Software	• EIT UV PowerView® III • Compatible with LabVIEW/Windows 7 & 10 • .tdms format
Display	Yellow text on black background
Operating Temperature	0–75°C (internal), with audible over-temp alarm
Battery	Two user-replaceable AAA alkaline cells
Battery Life	~20 hours with display on
Dimensions	4.60 × 0.50 inches (117 mm × 12.7 mm)
Weight	10.1 oz (289 g)

Additional Features

Feature	Description
Display Option	Shows W/cm², J/cm², and low-res irradiance profile on screen with one-button operation
Profiler Option	Transfers irradiance data and profiles to computer via PowerView® III software
Four Band Model	Includes all 4 L-Bands in one unit (L365, L385, L395, L405)
Dynamic Range	Up to 40 W/cm²
TMOR™ Technology	EIT's patented Total Measured Optical Response ensures accurate and repeatable measurements
Advanced Data Transfer	Transfers all four band profiles at 128 Hz to PowerView® III for analysis

Dynamic ranges

Spectral Band	Wavelength Range (±2 nm)	Dynamic Range
L365	340–392 nm	Up to 40 W/cm²
L385	360–412 nm	Up to 40 W/cm²
L395	370–422 nm	Up to 40 W/cm²
L405	380–432 nm	Up to 40 W/cm²

Battery & Power

- **Battery Life:** ~20 hours with display on
- **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:** Electro-optic sensor optimized for LED UV sources (L365, L385, L395, L405)
- **Sampling Rate:** Fixed at 128 samples per second
- **Internal Operating Temp:** 0–75°C
- **Over-temp Alarm:** Audible warning if upper limit exceeded

Data Acquisition

- **Memory Capacity:** Supports data collection for over 100 minutes
- **Spatial Response:** Lambertian (cosine-like)

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