

EIT RADIOMETER UVICURE PLUS II

Introduction



The **UviCure Plus II** is a **single-band UV radiometer** developed by **EIT 2.0 LLC**, designed for **broadband UV curing systems**. It is widely used in industrial applications for **monitoring, documenting, maintaining,** and **troubleshooting** UV curing conditions.

- **Single-band instrument** (UVA, UVB, UVC, or UVV selected at purchase)
- Measures **irradiance (W/cm²)** and **energy density (J/cm²)**
- Displays **irradiance profile (W/cm² vs time)**

Key Features

Feature	Description
Single-band Monitoring	Choose one: UVA, UVB, UVC, or UVV
Simple Operation	One-button operation: power on, measure, and view results
Graph Display	Shows peak irradiance and total energy as a function of time
Reference Mode	Store one run in memory to compare with live readings
Toggle Display	Switch between Graph and Reference screen (UviCure only)
Setup Options	Adjust display mode, sampling rate, brightness, and units (J/W, mJ/mW, μ J/ μ W)
Profiler Version Available	For data transfer to computer via UV PowerView Software® III

Spectral Response Options

Only **one** of the following spectral bands is included, chosen at time of order:

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

Dynamic Ranges (select at time of order)

Range	Description
High (H)	10 W/cm ² – High power systems
Mid (M)	1 W/cm ² – Low power or non-focused systems
Low	100 mW/cm ² – Low intensity or exposure systems

Sampling Rate Modes

Mode	Effective Sample Rate	Description
Smooth ON	25 Hz	Matches legacy models
Smooth PROFILER	128 Hz	Recommended; shows average (RMS) peak
Smooth OFF	2048 Hz	Captures fast, high-frequency events

Specifications

Spec	Value
Display	Yellow text on black background
Accuracy	±10%; typically ±5% ± 0.2% full scale
Calibration	Supplied with NIST traceable certificate
Spatial Response	Cosine (Lambertian)
Operating Temp	0–75°C; over-temp alarm built-in
Battery	2 × AAA alkaline batteries (user replaceable)
Battery life	~20 hours with display on
Timeout	2 minutes with no key press
Dimensions	4.60 in x 0.50 in (117 mm x 12.7 mm) (Diameter x Height)
Weight	289 g (10.1 oz)
Material	Aluminum and stainless steel

**Specifications are subject to change without notice.*

Carrying Case (Included)

- Foam-padded interior, nylon outer
- 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 version allows the user to transfer:

- **Numerical data (W/cm², J/cm²)**
- **Irradiance profile (W/cm² vs time)**

to a PC via **EIT PowerView Software® III**, for further analysis, comparison, and Excel export.

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EIT RADIOMETER

UVICURE® PLUS II PROFILER

Introduction



The UviCure Plus II Profiler is a **single-band UV radiometer** with an additional **profiling function**, designed for **detailed UV analysis** in lab, R&D, production, and field environments.

It combines two modes in one instrument:

- **Display Mode:** View irradiance (W/cm²), energy density (J/cm²), and a simplified irradiance profile directly on screen
- **Profiler Mode:** Transfer full irradiance profile and data to PC via USB for detailed analysis using **EIT PowerView Software® III**

Key Profiler Features

Feature	Description
Dual Function	Use as display-only meter or connect to PC for full profiling
Profiler Sample Rate	Fixed at 128 Hz (samples per second)
Display Sample Rate Options	Adjustable: 25 Hz, 128 Hz, or 2048 Hz
Memory Capacity	Stores over 100 minutes of profiling data
Software Compatibility	Works with UV PowerView Software® III (LabVIEW-based)
USB Connectivity	Connect to PC for data transfer and analysis

Measurement Capabilities

Metric	Description
Irradiance	W/cm ²
Energy Density	J/cm ²
Irradiance Profile	W/cm ² vs time
Band Selection	Choose one band at time of order: UVA, UVB, UVC, or UVV

Spectral Ranges (EIT Bands)

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

Dynamic Ranges (select at purchase)

Range	Description
High (10 W/cm ²)	High power curing systems
Mid (1 W/cm ²)	Low power or non-focused UV
Low (100 mW/cm ²)	Exposure systems or low-intensity UV

PowerView Software® III Highlights

Works with all EIT Profiler models (Power Puck II Profiler, LEDCure, PowerMAP II, LEDMAP).

Feature	Description
File Comparison	Compare two UV profiles side by side
Band Display Control	View selected bands (e.g. UVA, UVC)
Zoom & Cursor	Analyze irradiance peaks or duration precisely
Graph Overlay	Visualize focused vs unfocused lamp behavior
Note Taking	Add process notes to each file
Export	*.tdms files, compatible with Excel

Technical Specification

Spec	Value
Display	Yellow text on black background
Accuracy	±10%; typically ±5% ± 0.2% full scale
Calibration	NIST-traceable certificate included
Spatial Response	Cosine (Lambertian)
Operating Temp	0–75°C (audible over-temp alarm)
Profiler Sample Rate	128 Hz
Smooth Modes	25 Hz (ON), 128 Hz (Profiler), 2048 Hz (OFF)
Timeout (Display Mode)	2 minutes with no key activity
Battery	2 x AAA alkaline batteries (user replaceable)
Battery Life	~20 hours with display on
Dimensions	117 mm diameter x 12.7 mm height (4.60" x 0.50")
Weight	289 g (10.1 oz)
Materials	Aluminum & stainless steel

**Specifications are subject to change without notice.*

Carrying Case

Attribute	Value
Weight	260 g (9 oz)
Dimensions	274 mm x 89 mm x 197 mm (10.75" x 3.5" x 7.75")
Interior	Polyurethane foam
Exterior	Nylon cover (scuff-resistant)

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