EIT RADIOMETER
POWER PUCK II

Introduction

The **UV Power Puck II** is a **four-band UV radiometer**, designed for **broadband UV sources** like mercury, mercury-iron, or mercury-gallium lamps. It measures:

- **Irradiance** (W/cm²)
- **Energy Density** (J/cm²)
- **Irradiance Profile** (W/cm² vs Time)

Spectral Bands Monitored

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

Main Features

- **Four-band Monitoring**: Ideal for diagnosing lamp types and conditions (e.g., UVC:UVA ratio can indicate reflector contamination).
- **Single-button Operation**: Simple start, measure, and view.
- **Graph Display**: Shows irradiance over time (W/cm² on Y-axis, time on X-axis), plus peak UV intensity and energy.
- **All Channel Mode**: Displays readings for all four bands simultaneously (J/cm² and W/cm²).
- **Reference Mode**: Save and compare runs internally.
- **User Setup**: Options for display modes, sample rate, units (J/W, mJ/mW, µJ/µW), and brightness.
- **Optional Profiler Version**: Allows data transfer and analysis via **PowerView Software III**.

Sampling Modes (Smooth Modes)

Mode	Sample Rate	Notes
Smooth ON	25 Hz	Legacy mode (matches older Puck units)
Smooth PROFILER	128 Hz	Recommended for most users – shows average (RMS) values
Smooth OFF	2048 Hz	Captures fast events (e.g. AC flicker), shows instantaneous peak

Dynamic Ranges

Selectable at the time of order, depending on UV intensity:

Range	Description
High (H)	10 W/cm² – for high-power curing
Mid (M)	1 W/cm² – for low-power or non-focused sources
Low	100 mW/cm² – for exposure systems or low-intensity lamps

Specifications

Item	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 (with over-temp alarm)
Battery	2 x AAA alkaline (user-replaceable)
Battery Life	~20 hours (with display on)
Timeout	2 minutes (no key activity)
Dimensions	4.60" x 0.50" (117 mm x 12.7 mm)
Weight	289 g (10.1 oz)
Material	Aluminum and stainless steel

**Specifications are subject to change without notice.*

Carrying Case

Attribute	Value
Weight	260 g (9 oz)
Dimensions	10.75" x 3.5" x 7.75" (274 mm x 89 mm x 197 mm)
Material	Polyurethane foam interior, nylon exterior

Software Compatibility (Profiler Versions Only)

Profiler units allow data transfer to **EIT PowerView Software® III**, which provides:

- Detailed irradiance and energy graphs
- File comparison
- Data export to Excel
- Notes and process comments

(Profiler must be ordered at purchase or sent to EIT for upgrade.)

Authorised distributor:

**To find out more, please visit our website: www.vyns.tech & contact our distributor

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EIT RADIOMETER
UV POWER PUCK II PROFILER

Introduction

The **UV Power Puck II Profiler** is a **four-band profiling UV radiometer** developed by **EIT 2.0 LLC**. It combines an easy-to-use **display interface** with **advanced data profiling** capability for **in-depth UV system diagnostics**, **process validation**, and **quality control**.

- Real-time irradiance (W/cm²), energy density (J/cm²), and irradiance profiles on-screen
- Full profiling data transferable via USB to **EIT PowerView Software® III** for deeper analysis

Dual Functionality

Mode	Description
Display Mode	Shows irradiance, energy, and simplified profile on the device
Profiler Mode	Transfers full irradiance profile and numeric data to PC using USB and PowerView Software III

Spectral Bands (All Included)

Unlike UviCure Plus II, the Power Puck II Profiler includes **all four EIT bands**:

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

Dynamic Ranges (Choose at Order)

Range	Description
High (10 W/cm²)	For high-intensity curing systems
Mid (1 W/cm²)	For low-intensity arc lamps or non-focused sources
Low (100 mW/cm²)	For exposure systems or weak UV sources

Profiler Instrument Capabilities

- **Profiler Sample Rate**: Fixed at **128 Hz**
- **Display Sample Rate**: Adjustable – 25 Hz, 128 Hz, or 2048 Hz
- **Memory Capacity**: Over **100 minutes** of profiling data
- **Profiler Export**: Data stored as *.tdms files (LabVIEW format), exportable to Excel

Data and Software – UV PowerView Software® III

Compatible with:
- Power Puck II Profiler
- UviCure Plus II Profiler
- LEDCure Profiler
- PowerMAP II
- LEDMAP

Software Features:
- View and overlay irradiance profiles
- Compare two files side by side
- Select and isolate bands (e.g., UVA vs UVV)
- Zoom and use cursors to analyze peaks
- Add notes and process details
- Export profiles and tables to Excel or reports

Technical Specification

Parameter	Value
Display	Yellow 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 alarm for over-temp)
Battery	2 x AAA alkaline (user replaceable)
Battery Life	~20 hours with display on
Timeout	2 minutes (no activity in display mode)
Dimensions	117 mm diameter × 12.7 mm height (4.60" x 0.50")
Weight	289 g (10.1 oz)
Material	Aluminum and stainless steel

Included Carrying Case

Attribute	Specification
Material	Polyurethane foam interior + scuff-resistant nylon exterior
Weight	260 g (9 oz)
Dimensions	274 mm × 89 mm × 197 mm (10.75" × 3.5" × 7.75")

Use Cases

The UV Power Puck II Profiler helps with:
- Identifying bulb type (Hg, Hg-Ga, etc.)
- Monitoring individual lamp performance
- Diagnosing focus issues (e.g., focused vs unfocused)
- Tracking long-term system drift
- Comparing UV systems on multiple lines
- Ensuring consistent UV exposure for product quality

Authorised distributor:

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