

Vielight News

Accelerating photobiomodulation.



VIELIGHT **MASTERCLASS**
SERIES

Irradiance
Measurements
on a Human Skull

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Vie-Lab | Penetration Through a Human Skull and Skin

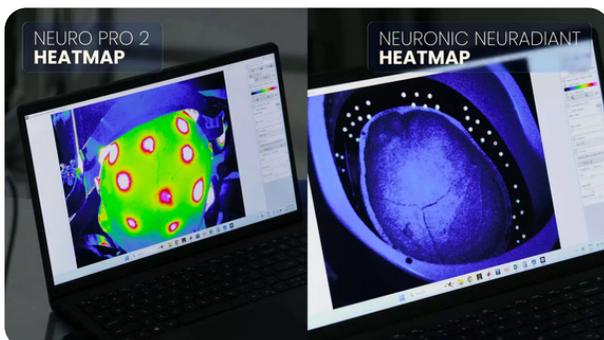
We replicated [Megalab's](#) irradiance [testing methodology](#), commissioned by the [PBM Foundation](#), and applied it to a real human skull and an optical skin phantom.

We also utilized a calibrated CCD camera to generate a live fluence map, visualizing the heat and light dispersion through the skull in real-time.

We compared the performance of three popular brain photobiomodulation devices:

- [Vielight Neuro Pro 2](#) (Manufactured by Vielight)
- [Suyzeko 1070 Helmet](#) ([Manufactured by Suyzeko](#))
- [Neuronic Neuradiant](#) (Private-labeled from Suyzeko)

Read the results here: [Full Analysis](#) | [Watch the Lab Simulation](#)



A [2024 systematic](#) study that screened 97 brain-PBM studies discovered the average irradiance was **~250 mW/cm²** with a wavelength of **810nm**.

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Newsletter Highlights

Vie-Lab | Penetration Through a Human Skull

Dementia Case Study | Dr. Kogan, MD

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DEMENTIA RESEARCH

Dr. Isabella Kogan

MD, PhD
College of Family
Physicians

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Vielight Dementia Research | Dr. Kogan & Neuro Pro 2 Case Study

Dr. Isabella Kogan, MD, a family geriatric physician presents a [compelling case study](#) on the effects of the Vielight Neuro's red light therapy on the aging brain. This video documents the journey of a patient with left temporal lobe damage resulting in fluent aphasia.

Dr. Kogan explains how the Vielight Neuro Pro 2 helps address the "under-stimulated brain" by increasing ATP production and stimulating mitochondrial enzymes. The results show significant improvements in alertness, verbal communication, and memory recognition.

Product Update: The device shown in this video is the legacy white Neuro Pro 2. The current model is the black Neuro Pro 2. Although the color and design have changed, the functionality and power capabilities described by Dr. Kogan remain comparable.



Access Vie AI. For free.

AI-powered EEG insights for neuromodulation.

Early access in February 2026.

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The Vie-Neuro AI Platform utilizes artificial intelligence (AI) and machine learning (ML) to analyze EEG files.

Whether you are a researcher, a clinician, or a home user, if you have access to your EEG data, you can have it analyzed on our platform.

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