

## VieLight Neuro Gamma

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The Neuro is the world's first transcranial-intranasal near infrared light (NIR) photobiomodulation device. It is based on the science of photobiomodulation, the utilization of low level photonic energy to stimulate mitochondrial function in neurons. It directs pulsed(10 Hz) NIR light energy to the <a href="https://nub.com/hubs-science-neurons-neur

Research studies in photobiomodulation show that damaged neurons regenerate when NIR light is present. The wavelength of 810 nm, pulsed at 10 Hz has been found to be the most effective wavelength for photonic penetration and neuronal healing. In human studies, pulsed NIR stimulation augments mental acuity, cognition, sustained attention, affective state and working memory. Engineered for wearability, the Vielight Neuro comes equipped with a compact helmet(or headset), an advanced intranasal diode and a lightweight control unit(rechargeable through the mains).

The combination of easy-to-use design objectives along with powerful parameters makes the Vielight Neuro – a next generation near infrared device.

## A Brief Introduction to the Default Mode Network

