red light therapy head wrap

fringe
HERE COMES THE SUN

The Red Light Therapy Head Wrap combines 3 light wavelengths of red light (650nm), near infrared light (810nm) and deep penetrating near infrared light (1050nm).

As a comfortable tool for targeted cellular healing, cognitive function, and brain health, this red light therapy head wrap contains 450 hard working LED light chips to provide light therapy and light coverage over the forehead, top, sides and back of the head. You may opt to use the head wrap (when flat) on other body areas as well.

Safe, effective, science-backed, affordable light therapy. Yep, for real.

Benefits

- Targeted cellular-healing
- Pain and inflammation reduction
- May help blood flow
- Enhance nervous system balance
- Increase cellular energy

Features

- 660 nm (red) and 810 nm (near-infrared) & 1050nm deep near infrared
- Ratio of 1:2 (red: near infrared) LED Chips
- 20 min automatic timer
- 2 levels of brightness - 100% or 50%
- Wireless portability
- FDA registered for pain relief and increased blood flow

The right wavelengths of light for healing
- red (630-660nm)
- near infrared (830-850nm)

Science-backed, Sun-like Intensity of light
- 20-40 mw/cm2 of adjustable light intensity

fringe, Inc. PO Box 281088, Lakewood, CO 80228, USA 720-593-9248 hi@fringeheals.com fringeheals.com © 2026 Fringe, Inc.

HOW DOES RED LIGHT THERAPY AFFECT BRAIN HEALTH?

Light therapy, specifically the application of red and near infrared light, positively impacts all three foundational pathologies of brain disorders: oxidative stress, impaired metabolism, and neuroinflammation.

Oxidative Stress: Light is absorbed in cells by molecules called chromophores, many of which are found inside the mitochondria. Mitochondria are involved in regulating the production the reactive oxygen species that cause oxidative stress when present in high amounts. Light therapy has been shown to modulate oxidative stress and reactive oxygen species production.
Impaired Metabolism: Through its impact on mitochondria, light also affects metabolism. In addition to regulating reactive oxygen species production, mitochondria also make the energy currency of the cell, called ATP. Specifically, RL and NIRL stimulates cytochrome c oxidase, a mitochondrial enzyme that produces ATP. This increases ATP synthesis which provides more energy to brain cells.
Neuroinflammation: Red and NIRL have anti-inflammatory effects, and unlike anti-inflammatory medications (such as NSAID's), do not cause side effects. Studies have found that light therapy affects levels of many molecules involved in inflammation, including reactive oxygen species, reactive nitrogen species, and prostaglandins. Red and NIRL therapy have specifically shown to reduce neuroinflammation.

In the box:

- Red Light Therapy Wrap – Head Wrap with adjustable velcro strap
- USB-C charging cord and adaptor
- User guide

LED Lights
75 W Wrap – 150 x 0.5 W, medical grade, LED Lights
3 LED light chips/light- 450 total LED light chips for a large, uniform light coverage

Light Wavelength
660nm (Red): 850nm (NIR – Near-Infrared): 1050nm (deep NIR) wavelengths in a 1:1:1 ratio
2 NIR light chips (810nm and 1050nm), 1 RED light chip (650nm)

Light Irradiance or Intensity
20-40 mW/cm2 maximum intensity at 0"
'Sun-Like' intensity
Continuous wave of light – no pulsing.

Light Use & Adjustability
Automatic 20-minute timer
2 levels of light brightness – 100% or 50%

Battery
Li-polymer battery, 5000mah, 3.7V
3-4 uses per charge
4 hour charging time

USB-C Charging Adapter
Input 100-240 V (Universal)
Output: 5V – 2A

Size & weight
28" x 18", useful for head
0.5 lbs, light and convenient

Material
Flexible and durable, head wrap with an adjustable strap

Warranty
1 Year Limited Warranty

Safety
EMF – 0.0mG at 0"
Light Flicker – Less than 1%, easy on the eyes
No Bluetooth, latex, or BPA

Conformance
FCC, ROHS, CA Prop 65

FDA
FDA registered for pain relief and increased blood flow

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yesterday's medicine, today's science

At Fringe, our mission is a simple one: to create products, content, and community centered around healing. In a world that moves fast, exploring the healing traditions from our past offers us slower-paced, longer lasting solutions to our modern day health challenges.