

Frequently Asked Questions

What is infrared or Quantum light therapy? Light therapy is currently being used in clinical and home settings around the globe. Light therapy has been in use by the medical profession for more than 20 years, to reduce pain and increase circulation. Its growing acceptance has become more abundant in the medical field. Quantum Light Therapy is the use of LED lights WITH pulsed frequencies to magnify and expand the outcome, as the frequencies provide specific information to the body, and the Light carries the information to the cells to rebalance and support health.

Can anyone use light therapy? Quantum Light Therapy equipment can be used safely without medical supervision by an individual at home or by a health professional in a clinical setting. The sessions are affordable, completely safe and non-invasive. As is the case with most modalities, if you are pregnant, are light sensitive, or are taking any medications that cause light sensitivity such as Tetracycline, please consult with your doctor regarding the use of any light therapy system.

Has the FDA reviewed Quantum Light Therapy equipment or other infrared systems? Quantum Light Therapy equipment, and many other infrared therapy products, is recognized by the FDA under classification (IRT) 890.5740 or other 510k listings. Both classifications require the manufacturing facilities to be registered with the FDA and adhere to GMP quality standards and are subject to inspection.

Does Quantum Light Therapy equipment require a prescription from a physician? No. Infrared devices such as Quantum Light Therapy do not require a prescription. Anyone may purchase a system without prescription. However, if you wish to receive treatments at a clinic with infrared therapy, your insurance or Medicare usually requires a prescription or referral to the facility in order to be reimbursed under your health plan. This is a completely separate issue from purchasing a system for your home or personal use.

What happens when Quantum Light Therapy equipment is used? The Quantum Light Therapy equipment's array of infrared and visible light diodes creates a comforting warm feeling under the pads.

The photonic energy:

- dilates the blood under the vessels, which often causes an increase in circulation.
- the light and mild warmth also may reduce and alleviate pain.

Additionally, patients and clients may experience:

- decrease in local swelling
- decreased inflammation
- decreased muscle spasms and tightness
- Diabetic with peripheral neuropathy typically experience an increase in sensation to pressure and hot/cold.
- increased range of motion
- increased lymphatic drainage
- increased venous dilation and flow
- decreased tension

How does Quantum Light Therapy increase circulation? The infrared photo energy releases nitric oxide from the hemoglobin and possibly surrounding tissue. Nitric oxide is a signaling molecule that is known to relax smooth muscle cells found in the arteries, veins, capillaries and lymph vessels. When these muscles relax, they dilate the blood vessel, thus allowing increased circulation.

Have increases in circulation associated with infrared devices ever been measured? Yes. Tests have been conducted with a scientific instrument known as a scanning laser Doppler, which measures circulation at 1 to 2 millimeters (microcirculation). These tests demonstrate increases from 400% to 3200% after just one session.

How does Quantum Light Therapy reduce pain? Nitric oxide has been shown to be essential for wound healing even if chronic or traumatic. Scientific literature shows that nitric oxide promotes collagen synthesis, collagen fibril alignment, and angiogenesis. Nitric oxide is also a neurotransmitter.

What is the difference between an LED and a low level laser? Both contain diodes (a little light with two wires connected to a filament inside) that can be made of the same materials, usually silicon with specific minerals added in specific amounts to produce different colors. In lasers the diode is mounted in a well-shaped area (like a small tin can with one end removed) that is lined with reflective material that sends, generally, only one wavelength of light. The result is a narrow beam of light that is concentrated into a beam, referred to as “coherent” light. However, when using low power levels (soft lasers) the light energy does not remain coherent and scatters when it hits the skin. This is given as the explanation why LEDs and low level laser devices have similar healing effects.

What colors of LEDs work the best? Red is probably more known and researched than any other color. Research in Russia found biologic effects to be most active with wavelengths around 440, 630 to 680 and 880 nanometers, corresponding to blue, red and infrared (beyond what humans can see). Red seems to stimulate the system, blue to sedate. In recent studies blue light from LEDs has been effective in treating jaundice of newborns and in treating acne and skin conditions.

Why are Quantum Light Systems pulsed to Dr. Nogier’s frequencies? Pulsed equipment is more effective than non-pulsed, and those pulsed to the tissue resonance frequencies of Dr. Nogier’s brilliant science are the most effective when working on the human body. The pulsing light at Nogier frequencies, according to studies, seems to be more important than wavelength (color) in the healing response for most conditions.

What about power? Quantum Light Therapy equipment diode output (mw for infrared and mcd for visible light), viewing angles (7 1/4 – 60 ¼), voltage (1.2 – 3.0 volts) (200 mw per diodes x 500 diodes = 100,000 mw), frequency (73 – 4698 Hz), wavelength (430 – 880 nm), and duty cycles (25 – 100%) are all very critical factors that are interdependent on each other. There seems to be a fundamental misunderstanding by most individuals about the relationship between these factors. A good system balances all of these factors and thus delivers the optimal amount of energy.

Can you explain the differences between the Quantum Light Therapy devices? Each of the Quantum Light Therapy products are designed to be easy to operate. They use special sets of Nogier, Solfeggio and unique quantum zero point technologies for the most desirable results. The Personal System is easy to use and pre-programmed with channels to use for 20 minutes each. The Premier, or Professional systems have the same pre-programmed channels PLUS the ability to custom program numerous other channels of frequency ‘sweeps’ which are a series of select frequencies designed specifically for certain conditions.

The Local Pad – contains a powerful concentration of 60 red spectrum pulsating diodes (at 640 nm) and 72 infrared spectrum pulsating diodes (at 880 nm) for a total of 132 LED photo pulsation diodes housed in a flexible neoprene unit. It can be used on any location of the body.

The Body Pad – has 120 red spectrum photo pulsation diodes (at 640 nm) and 144 infrared spectrum photo pulsation diodes (at 880 nm) for a total of 264 LED photo pulsation diodes covering the most surface area of the body.

The Red spectrum, medium wavelength technology (640 nm) used in both the Local and Body Devices make either of them excellent choices for most skin, soft tissue, muscle and nerve concerns. The longer non-visible wavelengths of the infrared spectrum (880) makes both of these light therapy devices ideal for the deeper applications of bone, cartilage, tendons, discs, teeth and inflammation concerns. Light stimulation also increases blood flow, helping to bring nutrients and cellular growth factors to areas needing them most. When placing either the Local or Body devices directly over the eyes, you must use the included protective eyewear goggles.

The Eye Mask – contains the same sets of Red Spectrum frequencies (640 nm) as the Local and Body units, with the addition of the Blue Spectrum wavelength frequency (440). Blue light works to kill bacteria on the skin and has recently been demonstrated by studies conducted by the National Institute of Health to support with the condition of acne and other skin conditions. The red wavelength has been shown to increase cellular activity at the dermal level and stimulates fibroblast and collagen production to strengthen sagging and wrinkled skin. As we age, there is a drop in these cellular activities and energy levels. With the delivery of the correct wavelengths of LED light, these dermal cells receive a rejuvenating, anti-aging boost. The feedback from our clients is “this is the feel good” mask.

Who has studied LED Light Therapy? There are volumes of scientific studies available on light therapy. The following is just a sample list of institutions that have conducted clinical studies on the effectiveness of LED Light Therapy:

- National Cancer Institute
 - Mayo Clinic, Jeffrey Basford, MD
 - Stanford University, Kendric C. Smith
 - Massachusetts General Hospital, Wellman Labs
 - NASA, Dr. Harry T. Whelan
 - Marshall Space Flight Center
 - University of British Columbia, Vancouver, B.C.
- Many Doctors worldwide!

What Can You Expect From your Light Energy Sessions?

Observe your body over the next 24–72 hours for both subtle and dramatic differences. Even if you do not feel anything dramatic, however, know that your system is experiencing a shift.

You may feel yourself more alert and ready to take on the world. You could find yourself more relaxed and calm during the session and afterwards. Keep in mind the body heals when it is in a relaxed state.

You may also feel a decreased or complete elimination of pain in a specific body area. The devise is designed to decrease inflammation and relief pain. What a wonderful feeling it is to wake up with no pain.

Drinking water before and after each session aids in elimination of toxins. This will help to make each session more beneficial.

If you do not experience any major changes after one session, don't give up. Most people will experience some form of change in their body after the first to third session. If you do not experience any changes, you may need to do some heavy metal detoxification as sometimes mercury, aluminum and other metals can block optimum results.

