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**Hot!** TerraQuant - Simple, affordable laser therapy



These days, laser is a well-used term to cover a wide range of power and applications in industry and medicine. From cutting through 100mm thick steel to eye surgery, and general surgery, for acupuncture and trigger points stimulation. Contrary to narrow beam higher energy lasers used for acupuncture and trigger points stimulation, **TerraQuant** emits **low level laser energy**, and it is emitted in a **cone shaped beam**. The combined use of both of these prevents tissues from burning, when used as recommended. **For further information on the applications of TerraQuant and how you can order one, [read the full article here.](#)**



What Really Works

Articles by Susan Clark

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**TerraQuant (Low-Level Laser Therapy)**



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**LOW-LEVEL LASER THERAPY (LLLT)**

LLLT is now a well-established procedure with strong evidence based clinical applications. LLLT is applied to a wide variety of acute and chronic musculoskeletal pain syndromes whose main presenting symptom is pain (back pain, muscle spasm, tendonitis, tennis elbow, carpal tunnel syndrome, fibromyalgia), dermatologic conditions (telangiectasis and low extremities

## TerraQuant (Low-Level Laser Therapy)



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### **TERRAQUANT**

The TerraQuant device is the only device available today (in Australia and Worldwide) which combines together **low level pulse laser radiation** (Laser Class 1M, power 0.4 to 1.4 mW, radiation 900+/-50 nm), and other radiations with clinical therapeutic modalities, **pulsating infrared radiation** (power 30-90mW, radiation 860-960 nm), **visible red light** (power 2-10mW, radiation 600-740 nm) and **static magnetic fields**, providing their synergic therapeutic effects. Incorporating all these radiations in one apparatus, achieves rapid and efficient clinical effects within a relatively short time.

TerraQuant therapeutic action operates via one of the most fundamental molecular mechanisms in the human body, **Adenosine Tri Phosphate (ATP)**. **Mitochondria** of all living cells are often termed cellular 'powerhouses' because of their involvement in converting chemical energy of nutrient molecules into the chemical energy of ATP. The chemical process of adding an inorganic phosphate to a molecule is called **phosphorilation**. The phosphorilation process in the mitochondria is composed of cytochroms, which are chromophores, molecules that respond to light radiations such that are incorporated in the TerraQuant. The phosphate groups of ATP, especially the terminal one, can be transferred by means of enzymes to other molecules in order to increase their reactivity. In this way, ATP links the energy-producing aspects of cellular biochemical reactions to the **energy requiring aspects** of biological work, such as movement, protein synthesis and active transport.

In a recent study, brain tissue was irradiated with near-infrared laser (830 nm) in vitro, and the content of ADP and ATP were monitored in the tissues. A rise in

ATP content of the brain tissue was observed, thus confirming the effect of LLLT on ATP production. Increased cellular ATP enables the ischemic cells in the damaged tissue to heal and to attain their normal functions.

***TerraQuant has been shown to be effective in a wide variety of conditions, including the following:***

Musculoskeletal conditions (both chronic and acute)  
Rheumatoid Arthritis  
Osteoarthritis  
Tendonitis  
Supraspinatus  
Whiplash injuries  
Golfer's elbow (medial epicondylitis)  
Tennis elbow (lateral epicondylitis)  
Carpal Tunnel Syndrome  
Soft tissue injuries  
Muscle spasm  
Fibromyalgia (FM)  
Back pain  
Bone repair  
Wound healing  
Diabetic ulcers  
Pressure ulcers  
Venous ulceration  
Lymphoedema

***Contra Indications:***

*Pregnancy; close to a Pacemaker; never look straight into the emitter without protective eye wear while it is turned on.*

TerraQuant itself represents a breakthrough into the consumer market, both in terms of price-point and ease of use, offering fast relief for chronic pain sufferers, enhancing quality of life by reducing and making their pain more manageable, if not getting rid of it all together. TerraQuant is available from **John Bell and Croydon**, priced £995 or you can order direct from the [UK distributor](#) for the same price or, if preferred, via an interest-free instalment plan. **Further information can be found on [www.terraquant.co.uk](http://www.terraquant.co.uk) or by telephoning on 0800 083 23 93 or 020-7267 3906.**