

Technical Introduction to the Electro-Acuscope and Myopulse

The equipment is designed with proprietary “tissue monitoring” circuitry and biofeedback-controlled voltage and variable current output.

The unique factor which contributes most significantly to the outstanding effectiveness of the Acuscope and Myopulse is that these instruments are programmed to monitor tissue impedance (resistance), then to utilize this information, precisely controlling configuration of the treatment in “real time” while stimulation is taking place.

In other words, the Electro-Acuscope & Myopulse comprise the only micro-current therapy system in existence with micro-chip circuitry that is programmed to compare feedback from the body undergoing treatment to universal (normal) neuromuscular cellular energy patterns. It is the only system capable of taking readings (acquiring information/feedback) from tissue placed between its electrode contacts. Continuously adjusting its micro-current signal (carrier wave output) accordingly, the primary goal of an Acuscope and/or Myopulse treatment is to send in corrective patterns through the tissue between the probes until normal current signals are attained. Tissue self-repair is significantly boosted (accelerated) by this influence.

Further unique as a therapy modality, both instruments provide auditory and digital feedback to the operator (and the savvy patient!) in order to monitor results (track progress) and determine the most efficient and effective treatment protocol.

When patients recognize that the sounds and readouts are meaningful, they have objective confirmation that their pain syndrome has been detected and they can visibly and audibly confirm the fact that they are making progress. This has been found to have a profoundly therapeutic psychological influence.

The Acuscope acts upon subcutaneous tissue and neurological issues by generating waveforms identical to nerve signals (infinitely variable squarewaves). The effect is to reduce neurological pain signals and eliminate inflammation when no longer necessary, dispersing fluids leftover in acute tissue conditions. Acuscope therapy can also improve blood flow and enhance electrical conductivity in chronic and circulatory-impaired tissue. The Acuscope and Neuroscope (personal home unit) both provide trans-cerebral applications that restore the circadian cycles and effectively treat stress, reduce anxiety, help to overcome addictions and relieve sleep disorders.

The Myopulse is designed primarily for connective tissue rehabilitation, sports injuries, accident-related trauma, regeneration of scar tissue and to provide non-surgical facial rejuvenation (Myopulse Facial). The Myopulse “communicates” electronically with the connective/contractile tissue by direct application to muscles, tendons, ligaments and fascia. While receiving (monitoring) input from the electrical fields generated by groups of cells, it is configuring and transmitting corrective stimulation in waves that wash through the tissue in the formation of an (infinitely variable) sinusoidal waveform envelope.

Both Units utilize equilibrium principles that are stored in very unique integrated circuit chips and other discrete components. Utilizing patented, proprietary programming, the technology monitors the actual values of the tissue within the treatment area by accumulating input from contact electrodes; and by a unique filtering and amplification process the parameters monitored in the nerve tissue and muscle fibers are brought to within optimal range.

Comfortable, Non-Invasive Treatments are below the “prickling” threshold, therefore treatment is soothing and relaxing. Patients comment that they are feeling relaxed during Acuscope treatments. Areas being addressed by the Myopulse seem to “let go” “disappear” “feel better” and are “not tight anymore.” Significant clinical improvements are usually experienced within the first few applications. Results are cumulative over a series of treatments.

Electrodes: A wide variety of manual hand-held probes and placement electrodes have been designed to be incorporated into this unique treatment delivery system. These include point specific probes with a variety of metal alloy tips for specialty applications; dispersive roller electrodes; large and small placement plate electrodes for unattended therapy and/or convenient self-treatment.

Specialty probes include: auricular (ear), odonton (gumline), lymph drainage, reflexology, soft tissue, facial, transcranial ear clips and headband (for head trauma, neck tension, headaches, stress, anxiety and sleep). All probes and electrodes have been designed for versatility so that health care professionals in every field of chronic pain management, sports injuries and anti-aging esthetics may effectively utilize this bio-feedback driven micro-current therapy system.

Conductive Solutions: liquid gels and creams that match the electrolyte composition of interstitial fluids and overcome skin resistance when current is applied are the critical link to the effective utilization of the Acuscope and Myopulse. These complex products are specially formulated to provide accurate two-way communication between the instrument and the tissue, and are compatible with the metal alloy probes that provide the interface between the body and the technology.

The electrolyte solutions reduce resistance of skin tissue by duplicating the body's internal electrochemical environment, thereby allowing the computer circuitry to accurately adjust its voltage output & current travel velocity without interfering resistance from the skin surface.

Specialty wound tissue compositions and facial creams and gels are available as well.

Classification: The Acuscope and Neuroscope are FDA approved for therapeutic use as TENS (Transcutaneous Electrical Nerve Stimulation) and the Myopulse is FDA approved for EMS (Electrical Muscle Stimulation). Of course, the standard modalities in these categories deliver milli-amperage stim; whereas the Acuscope/Myopulse System treats with currents below one milli-amp, in the micro-amperage range.

Insurance Reimbursement: Standard Insurance Billing Procedure Codes for electrical stim apply.