



SOLARIS

Light Therapy • Electrotherapy • Ultrasound

Solaris 700 Series

DYNATRON SOLARIS™ SERIES

Dynatronics has combined the popular features of the 50 Series Plus™ line with **Light Therapy** and **Direct Current** to create the revolutionary Solaris Series. Solaris offers the most options in any one device by including Ultrasound, seven Stim waveforms, and the option of adding Light Therapy. The state-of-the-art Solaris Series allows clinicians the freedom to treat with a variety of different modalities. In addition to the latest technology, its durable construction and portable size means Solaris can travel anywhere.

709 - 5 Channel Combo Unit



701 - Ultrasound Unit



705 - 3 Channel Stim Unit



706 - 5 Channel Stim Unit



708 - 3 Channel Combo Unit



Add Light Therapy...

All Dynatron Light Pads and Probes are compatible with any Solaris 700 Series device, however a Dynatron Booster Box™ must be used with the Dynatron XP light pad. Choose from a wide variety of optional light accessories ranging in power from 500 mW to 7,500 mW.

Dynatron Solaris with Light pad & Booster Box



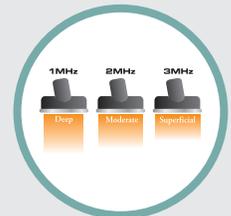
Model #	Power (mW)	Wavelength (nm)	Color
Probes			
405	500	405 / 880	IR / Blue
880	500	880 / 660	IR / Red
880 Plus	1,000	880 / 660	IR / Red
890	625	880 / 660	IR / Red
Light Pad			
XPB*	7,500	880	IR

*Booster Box required.

Patented Features

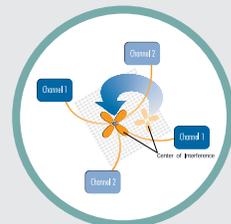
Patented 3-Frequency Ultrasound

The only Ultrasound devices in the industry offering 1, 2, and 3 MHz frequencies for the greatest flexibility in depth of treatment.



Patented Target and Target Sweep

By focusing the treatment precisely where it is needed, Dynatronics' unique TARGET feature provides a more effective interferential treatment. Simply glide your finger across the TARGET touch pad to move the center of interference to the site of your patient's pain.



Introducing the Solaris X Series

Dynatron X3

Multi-Patient – Generating a total of 16,000 mW of light, the Dynatron X3 is the most powerful unit available and is capable of delivering 3 independent treatments (2 light pads & 1 light probe).

With the introduction of the new Dynatron X3™ stand-alone light-therapy device and the new Dynatron XP™ Light Pad, Dynatronics has redefined how light therapy is delivered. The new Dynatron X3 allows **3 independent treatments** (2 pads and 1 probe) and is capable of delivering 16,000 mW of light. With its state-of-the-art touch screen, the Dynatron X3 is also simple to operate.

While light probes remain the preferred method for treating extremities and smaller areas, the new Dynatron XP Light Pad finally makes treating larger areas practical, and best of all, **UNATTENDED!** In addition to size and power, the Dynatron XP Light Pad is also flexible, making it convenient to wrap around joints.

Dynatron XP*

- **Big** – Covering an 8" x 10" area (over 500 cm²), the Dynatron XP Light Pad is 100 times larger than competitive Light Probes.
- **Fast** – With 7,500 mW of power per pad, the entire low back can be treated in 4-7 minutes.

* Patent Pending

D880 plus™ Light Probe
(1,000 mW)



Dynatron XP™ Light Pad
(7,500 mW each)

"LIGHT IS LIGHT"

"If wavelength and dose are identical, results will be the same regardless of the light source—SLD's, LED's, or lasers. Light is Light."

Chukuka Enwemeka, PT, PhD, FACSM
Chairman NAALT, Past President WALT

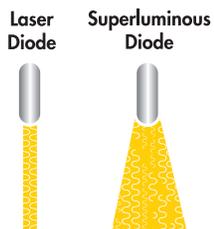
The Facts of Light

Wavelength Determines Depth-of-Penetration

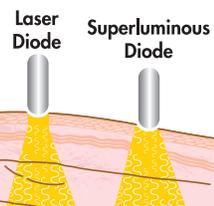
“Wavelength determines depth-of-penetration—the longer the wavelength the deeper the penetration. Qualities unique to lasers such as collimation and coherence do not affect depth-of-penetration since both are lost once light has penetrated the first millimeter of tissue.”

By the time laser-generated light has passed through the first millimeter of tissue, the unique qualities of collimation and coherence are lost.

—D.C. Laycock, Ph.D., MIPEM, MBES, CGLI., “Lasers vs. Super Luminescent Light Emitting Diodes”



Prior to penetrating tissue, laser-generated light maintains unique qualities of collimation and coherence.



By the time laser-generated light has passed through the first millimeter of tissue, the unique qualities of collimation and coherence are lost.

Coherent (Laser) vs. Non-Coherent (SLD) Light

“In these cases, the coherent and non-coherent light with the same wavelength, intensity and dose provide the same biological response.”

—Tiina I. Karu, Ph.D., Professor, Russian Academy of Laser Sciences, “Cellular Mechanisms of Low-Power Laser Therapy: New Questions”

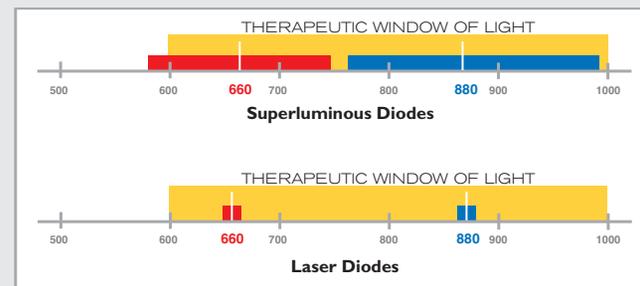
Lasers are not Magical

“All too often the laser phototherapy literature is written as if a laser is magical. Lasers can seem magical if their unique properties of micro-dot focusing, high intensity, possibility of ultrashort pulses, coherent radiation, and monochromaticity are all made use of. If the first four properties are not useful in a particular application, as is the case for laser phototherapy, then a laser is just an expensive light bulb, whose emitted radiation follows (*except for coherence*) all of the same laws of physics and chemistry that the same wavelength of radiation from a conventional (*non-coherent*) light source follows....

Furthermore, there is no significant difference whether the light used to stimulate growth was generated by a laser or from non-coherent light of the same wavelength.... These results further support the conclusion that lasers are not magical; it is the light that they produce that yields the biological effect. It is the wavelength of the light that is important, not the coherence or lack of same.”

—Kendric C. Smith, Ph.D., Professor Emeritus of Radiation Oncology (Radiation Biology), Stanford University School of Medicine, Founder and First President American Society of Photobiology, “Laser (and LED) Therapy is Phototherapy”

Wavelength Spectrum - SLD vs. Laser



SLD's (Superluminescent diodes) generate light covering a broad range of wavelengths, whereas laser diodes are monochromatic and are limited to a single wavelength.

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