

What you should know about LASER...

Vectra[®] GENISYS LASER

Featuring both the Vectra Genisys Laser System and Laser Module

Part Numbers and Accessories

Light Source Diodes - All therapeutic light sources available today are generated by a semi-conductor diode. Low Level Laser, SLD and LED light sources generate different types of light.

LLLT - Low Level Laser Therapy

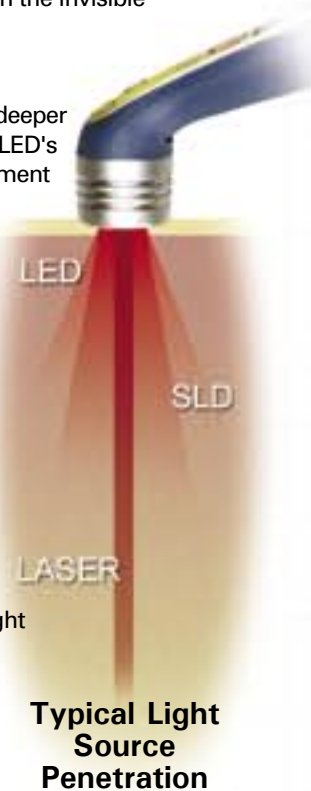
- Collimated light with a small spot size in the invisible near-infrared range of light
- Wavelength range of approximately **700 to 1000 Nanometers (nm)**
- These devices allow light to penetrate deeper into the body than light from SLD's or LED's and offer greater versatility in the treatment of deep and superficial conditions.

SLD's- Super Luminous Diode

- Non-collimated light with a larger spot size in the visible red or infrared range of light
- Wavelength of **660 to 880 nm**
- SLD's overall depth of penetration is less than laser diode generated light, however, it is generally greater than LED's. SLD's are commonly used in the treatment of superficial conditions.

LED's- Light Emitting Diode

- Non-collimated light with the largest spot size in the visible red range of light
- Red LED's wavelength range is **620 to 690 nm**
- This light reaches only a few millimeters into the body's tissues. It is an option when the condition is very close to the surface.



Collimation, Wavelength and Power affect depth of penetration and are all important technical criteria for evaluating Laser Light Therapy. The selection of spot size, wavelength and power needs to be based upon the type and depth of conditions being treated.

Collimation

relates to the spot size or spread of the light source. The more focused the beam, the deeper the light source can penetrate before scattering in the tissues. When comparing the light sources at the same power output, a focused, laser light beam will penetrate further into the target tissue than non-collimated, non-focused light, such as SLD's and LED's.

Wavelength also affects the depth of penetration. The longer the wavelength, the deeper the penetration. Infrared light will penetrate deeper than red light.

Power is the amount of light energy delivered per unit time. Higher power increases effective depth of penetration and takes less time to deliver the same amount of energy. A high-powered SLD or LED light source, even at longer wavelengths, may not deliver a therapeutic dose to tissues of moderate or deeper depth.

Vectra Genisys Laser Therapy Systems

2784 - Vectra Genisys Laser

2758 - Vectra Genisys Laser Module

- For use with Vectra Genisys Therapy Systems

Vectra Genisys Therapy Systems

2764 - 2 Channel Electrotherapy System

2794K - 2 Channel Electrotherapy System with Cart

2761K - 2 Channel Combination System

2792K - 2 Channel Combination System with Cart

Vectra Genisys Laser Applicators

27840 - 850nm Single Diode Laser 100mW

27841 - 850nm Single Diode Laser 200mW

27805 - 820nm Single Diode Laser 300mW

27811 - 9 Diode Cluster 540mW

5 x 850nm 100mW Laser

4 x 670nm 10mW LED

27812 - 9 Diode Cluster 1040mW

5 x 850 nm 200mW Laser

4 x 670nm 10mW LED

27814 - 13 Diode Cluster 415mW

3 x 850nm 100mW Laser

3 x 950nm 15mW SLD

7 x 670nm 10mW LED

27816 - 13 Diode Cluster 715 mW

3 x 850nm 200mW Laser

3 x 950nm 15mW SLD

7 x 670nm 10mW LED

27808 - 33 Diode Cluster 1440 mW

5 x 850nm 200mW Laser

8 x 880nm 25mW SLD

8 x 950nm 15mW SLD

12 x 670nm 10mW LED

Vectra Genisys Laser System Accessories

27525 - Laser Protective Eyewear

27478 - Battery Pack

27468 - Vectra Genisys Therapy System Carry Bag

27467 - Vectra Genisys Laser Carry Bag

27900K - Laser Interlock Adapter Kit - Module System

27904K - Laser Interlock Adapter Kit - Laser System

Vectra Genisys Therapy System Carry Bag

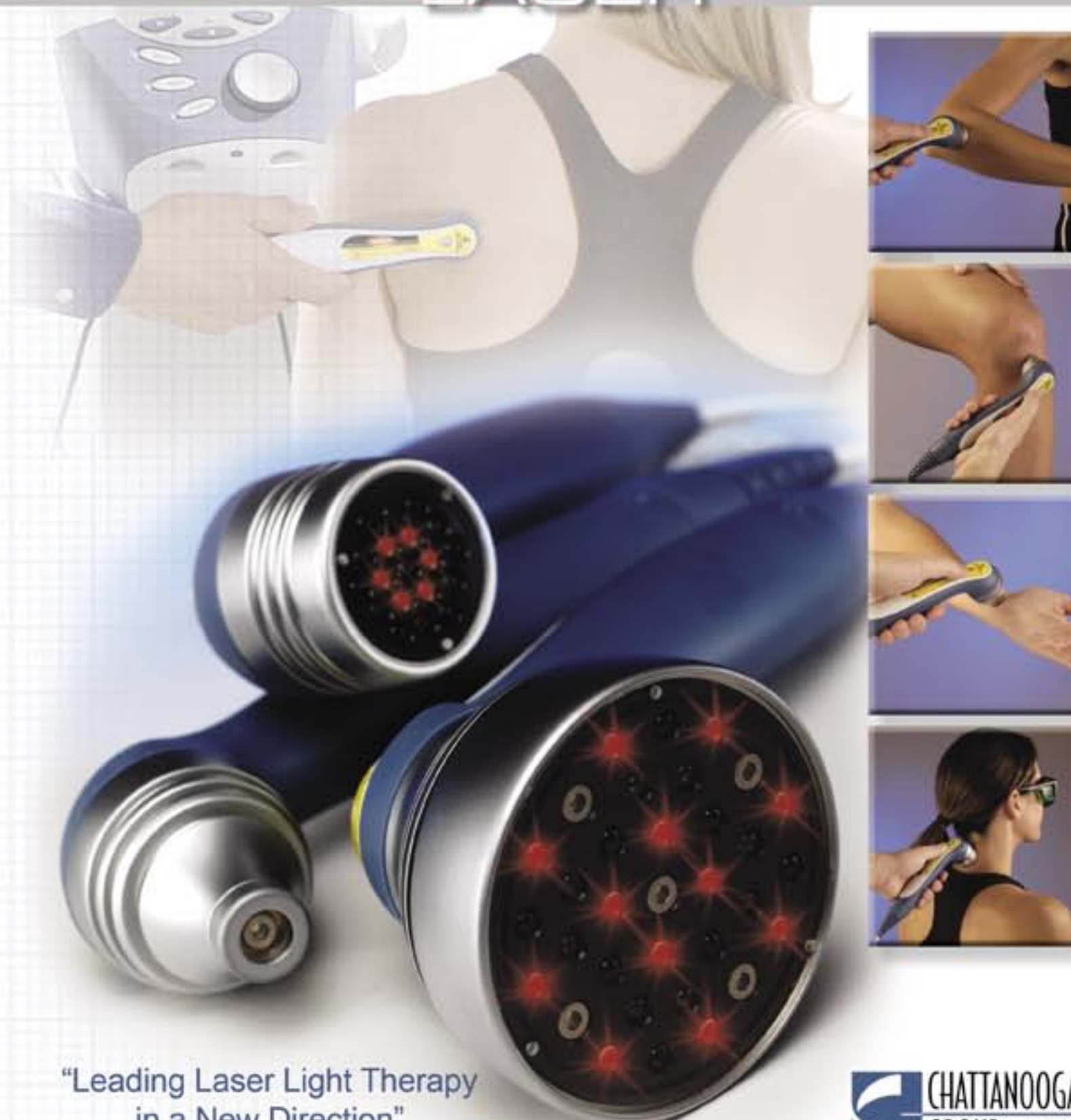


Vectra Genisys Laser Carry Bag

Battery Pack



Laser Protective Eyewear with Case



"Leading Laser Light Therapy in a New Direction"



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Vectra[®] GENISYS LASER

Chattanooga Group introduces two new Laser Light systems: Vectra[®] Genisys Laser Module and Vectra[®] Genisys Laser System



Vectra Genisys Laser Module



Vectra Genisys Laser System

The Vectra Genisys Laser Module is the newest modality module designed to function with the Vectra Genisys Therapy System. It offers the clinician the most comprehensive offering of modalities (6) in one complete therapy system.

- Features:**
- Continuous and pulsed operation
 - Real time feedback of dosage delivered
 - Clinical indications
 - User-defined protocols
 - Choice of 8 interchangeable applicators with power ranging from 100mW-1440mW, the most comprehensive selection of FDA cleared laser applicators
 - Electronic Signature™ Recognition allows each laser applicator to be used in a "plug-and-use" format.
 - Ergonomically designed laser applicators conform comfortably to your hand, for efficient use.
 - Therapy can be controlled from laser applicator.
 - Laser protective eyewear is even included.

The Vectra Genisys Laser System is an easy-to-use, dedicated laser system. It features an innovative case design; a logical control system; a large, easy-to-read graphical LCD display; a repositionable base allowing desktop or wall mount configuration and a battery pack option for portable therapy applications.

Laser Light Therapy

Laser Light Therapy is a physical modality that emits photons (light) in very specific regions of the electromagnetic spectrum. Laser Light Therapy is the most researched and published modality in physical rehabilitation and has demonstrated a multitude of clinical benefits that include relieving pain from minor muscular and joint aches, pain and stiffness associated with arthritis, relaxing muscle spasms and increasing local blood circulation.

There is significant confusion about the terminology related to Laser Light Therapy. The most commonly confused terms are light sources as they relate to wavelength and power delivered (e.g. **Low Level Laser Therapy - LLLT**, **Super Luminous Diodes - SLD**, and **Light Emitting Diodes - LED**). All of these light sources can be administered therapeutically, but a main difference is the depth of penetration into the body's tissue.



Does Low Level Laser Therapy meet the needs of my patient's condition?

There are a variety of therapeutic light sources on the market today.

Chattanooga Group offers a wide range of Vectra Genisys Laser Applicators to meet the treatment requirements of a variety of conditions.

Light Sources

- Laser Only
- Laser, SLD and LED Cluster

Wavelengths

- 670nm, 820nm, 850nm, 880nm and 950nm

Power

- 100mW to 1440mW

Chattanooga Group's Vectra Genisys Laser Systems offer a selection of 8 interchangeable laser applicators, the most comprehensive selection of laser applicators cleared by the FDA. Providing multiple wavelengths and a broad power range, Vectra Genisys Laser Systems can effectively treat a variety of superficial and deep clinical conditions.

Output is simulated.

Most Comprehensive Range of Laser Applicators in the USA



Part #	LED's	SLD's	Laser Diodes	Total Power
27840	0	0	1 x 850nm/100mW	100mW



Part #	LED's	SLD's	Laser Diodes	Total Power
27841	0	0	1 x 850nm/200mW	200mW



Part #	LED's	SLD's	Laser Diodes	Total Power
27805	0	0	1 x 820nm/300mW	300mW



Part #	LED's	SLD's	Laser Diodes	Total Power
27811	4 x 670nm/10mW	0	5 x 850nm/100mW	540mW



Part #	LED's	SLD's	Laser Diodes	Total Power
27812	4 x 670nm/10mW	0	5 x 850nm/200mW	1040mW



Part #	LED's	SLD's	Laser Diodes	Total Power
27814	7 x 670nm/10mW	3 x 950nm/15mW	3 x 850nm/100mW	415mW



Part #	LED's	SLD's	Laser Diodes	Total Power
27816	7 x 670nm/10mW	3 x 950nm/15mW	3 x 850nm/200mW	715m



Part #	LED's	SLD's	Laser Diodes	Total Power
27808	12 x 670nm/10mW	8 x 880nm/25mW and 8 x 950nm/15mW	5 x 850nm/200mW	1440mW

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