

Light Therapy

Light Therapy Overview

The light therapy option provides therapeutic infrared light for temporary increase in blood circulation, temporary relief of minor muscle and joint aches, pains and stiffness, temporary relaxation of muscles and temporary relief of minor pain and stiffness associated with arthritis. The laser probe has a GaAs Diode that emits infrared coherent light at 785 nm. Blue LEDs at 470 nm illuminate the treatment field to show the clinician where the laser is pointed. The SLD/LED cluster probe, with 950 nm SLDs and 660 nm LEDs is also available. All of the controls for light therapy are already installed on the Sys*Stim 240. The clinician only needs to purchase the accessory package and plug in the applicator to activate the light therapy capabilities. And like the stimulator portion of the device, there are treatment suggestions along with parameters and treatment illustrations.

- Plug and play light therapy
- Control intensity or repeat treatments from the applicator
- 500 mW cluster and/or 80 mW laser
- Treatment protocols available
- Memory for user-defined protocols
- Protective eye glasses included



Light Therapy Optional Packages

2407 Laser and cluster applicator kit includes:

- Laser applicator, 785/470 nm, 80 mW (2401)
- Cluster applicator, 950/550 nm, 500 mW (2402)
- Applicator holder (left) with mounting hardware (2410)
- Applicator holder (right) with mounting hardware (2411)
- One pair of protective Uvex glasses X2 (5403)

Packages for just the laser or the cluster applicator are available. These include 2 pairs of protective glasses and an applicator holder with mounting hardware.



Optional Light Therapy Specifications

Output Power	Dependent on Applicator (automatically sensed)
Laser diode applicator :	80 mW at 785nm
Cluster applicator :	500 mW at 660/950nm
Delivered energy :	0.01 to 99.99 Joules
Operation modes :	Continuous and Pulsed
Pulse mode :	Laser 100 us nominal
Pulse width :	Cluster 50% duty cycle
Pulse frequency :	
A)	Continuous
B)	10 Hz, 25 Hz, 50 Hz, 100 Hz, 250 Hz, 500 Hz, 1 kHz, 2.5 kHz, 5 kHz (Pulses per Second)
C)	Sweep from 10 to 5 kHz in 10 seconds
Timer	0 to 99 minutes 59 seconds, 1 second increments (decrementing). Audible signal and output termination at time expiration

Light Therapy

Laser Sys*Stim® Therapeutic Laser and Light Therapy

Mettler Electronics advances the fight against pain using a therapeutic infrared laser that directs pain-relieving light deep into tissues. Super luminous diodes are also available to treat larger areas with soothing infrared light.

Both forms of light energy produce temporary increases in blood circulation, temporary relief of minor muscle and joint aches, pains and stiffness, relaxation of muscles and temporary relief of minor pain and stiffness associated with arthritis.



Laser Sys*Stim® 540 Therapeutic Laser

The Laser Sys*Stim 540 is an easy to use and affordable light therapy device. Purchase the control unit with either the laser probe for deep penetration, the cluster (infrared) probe for shallow penetration or purchase both probes together. The 540 has a laser probe with a GaAs Diode that emits infrared coherent light at 785 nm (810 nm, export only). The cluster probe operates at 950 nm (SLDs) and 660 nm (LEDs). Blue LEDs at 470 nm illuminate the treatment field to show the clinician where the laser is pointed while wearing the goggles. The control unit allows the clinician to set treatment time, continuous / pulse modulation modes and laser output energy.

All treatment parameters are displayed on the LED displays and controlled via the membrane keypad. There are holders integrated into the unit to store applicators when not in use. Laser output can also be adjusted via controls on the both the laser and cluster applicators. The Laser Sys*Stim 540 comes standard with a battery for truly mobile light therapy and has the ability to store up to 10 custom protocols of your choice. You have three choices to choose from:

- Laser Sys*Stim 540L – unit with laser probe
- Laser Sys*Stim 540C – unit with cluster probe
- Laser Sys*Stim 540LC – unit with both laser & cluster probe



Weight: 5.5 lbs. (2.5 kg)

Dimensions: 9.4 in. (W) x 4.7 in. (H) x 9.4 in. (D) (24 cm (W) x 12 cm (H) x 24 cm (D))

Warranty: 2 years on unit, 1 year on applicators and cables

Laser Sys*Stim Accessories

Item# Description

5401 785 nm laser applicator (with three 470 nm LEDs)

5402 660/950 nm SLD/LED cluster applicator

5403 One pair of protective glasses

5404 810 nm laser applicator (with three 470 nm LEDs), CE only

5405 One set of 2 replacement keys