

Introducing
The New
Laser Sys\*Stim® 540
For Light Therapy.

Shine a new light on your practice with the newest member of Mettler Electronics' product line for therapy, the Laser Sys\*Stim 540. This exciting new device features a laser applicator at 785 nm for deep tissues. While the optional cluster applicator with 950 nm SLDs amd 660 nm LEDs allows the clinician to treat larger areas.

The control unit allows the clinician to set treatment time, continuous/pulse modulation modes and laser output energy. In addition,

ten user-defined programs are
available for fast and easy
treatment setup. Laser output can be
adjusted via controls on both the laser and
cluster applicators.

Each Laser Sys\*Stim 540 comes with a battery so you can take light therapy with you on the road. A built-in sensor allows you to check the laser output to verify that it's working Find out more about how you can introduce light therpay into your practice today. Call 800-854-9305 for more information. You can also visit our website at www.mettlerelectronics.com.



## **Introducing The New** Laser SysStim 540



Laser Applicator showing one laser diode at 785 nm surrounded by 3 LEDs at 470 nm.



Cluster Applicator showing 12 SLDs at 950 nm with seven LEDs at 660 nm.



Laser applicator over laser output sensor showing visible proof of laser activity.

## **Specifications**

**General Information:** 

110 to 240 Volts AC Voltage: Frequency: 50/60 Hz Power: Less than 150 VA

Sealed lead acid, 12 Volt, 0.8 AH Battery: Greater than 30 minutes Operation time on battery:

International standards: EN60601-1 1990 EN60601-2-22 1996

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

Weight:

Laser output meter: Infrared photo sensor integrated into the

top panel

Laser Performance:

Output power:

Laser diode applicator 80 mW at 785nm Optional cluster applicator 500 mW at 660/950nm Delivered energy: 0.01 to 99.99 Joules Operation modes: Continuous and Pulsed

Pulse mode: Pulse width:

> Laser: 100 μs nominal Cluster: 50% duty cycle

Pulse frequency: A)

Continuous B) 10 Hz, 25 Hz, 50 Hz, 100 Hz, 250 Hz,

500 Hz, 1 kHz, 2 kHz, 5 kHz C) Sweep from 10 to 5 kHz 0 to 99 minutes 59 seconds Timer

> METTLER **E**LECTRONICS corp.

## Laser Applicator Specifications:

Wavelength: 785 nm Power: 80 mW

Treatment area illumination: Three blue LED's (470 nm)

Capacitance switch on applicator handle Output activation: Beam spot: Elliptical beam spot 2.8 mm x 1.1 mm

(elliptical beam area of  $= 9.2 \text{ mm}^2$ ) at the aperture.

Divergence: Elliptical beam divergence 18 degrees and

Uvex glasses with a minimum of 80% Eye protection:

attenuation in the wavelength range of 780 nm to 860 nm. The Uvex glasses sup

plied with the unit meet these

requirements.

## **Optional Cluster Applicator Specifications:**

SLD: Twelve 950 nm Super luminescent Diodes LED: Seven 660 nm Light Emitting Diodes 500 mW Total Power

Treatment area illumination: The 660 nm LED's are visible and illumi-

nate treatment area

Output activation: Capacitance switch on applicator handle Treatment area:

 $3.4 \text{ cm}^2$ 

Eye protection: Uvex glasses with a minimum of 80% attenuation in the wavelength range of

780 nm to 1200 nm. The Uvex glasses supplied with the unit meet these

requirements.