



**HELT THERAPY



CHELT

Cryo · High · Energy · Laser · Therapy

Chelt Therapy is the innovative synergy of adjustable cold and hot dry air with thermal control and Theal laser therapy to maximise therapeutic results in both acute and chronic phases.



CRYOTHERAPY
DRY COLD AIR AT -40°C



THEAL LASER THERAPY
TO MAXIMISE THERAPEUTIC
RESULTS



THERMOTHERAPY
UP TO +55°C
ADJUSTABLE



THERMAL SHOCK



SUPER-ANALGESIC EFFECT

CHELT Therapy's unique synergistic combination of dry cold air cryotherapy at -40°C and the patented stochastic E2C mode of THEAL Laser Therapy generates an intense amplified analogsic effect.

REDUCES RECOVERY TIME

CHELT Therapy cryotherapy limits blood extravasation and allows early instrumental investigation to establish the best therapeutic strategy in a short time and achieve rapid functional recovery.

This, in synergy with the possibility of triggering photobiomodulation in total athermal mode, makes it possible to start the rehabilitation process in advance and to bring the correct therapeutic dose in depth, allowing to accelerate the healing of pathologies in depth.

SCIENTIFIC RESEARCH

CHELT Therapy is the result of years of innovation and scientific research, developed through Mectronic's collaboration with various institutes and universities, in order to validate the beneficial effects of the CHELT method.

98%

98%* of patients treated with CHELT Therapy experience immediate pain relief

*Short-term effect of Shockwave Therapy, Temperature controlled High Energy Adjustable multi-mode emission Las (THEAL THERAPY) or stretching in Dupuytren's disease: a prospective randomized clinical trial. - A. NOTARNICOLA G. MACCAGNANO, F. RIFINO, V. PESCE, M.F. GALLONE.

*CHELT Therapy in the Treatment of Chronic Insertional Achillet Tendinopathy. - NOTARNICOLA A, MACCAGNANO G, TAFURI S FORCIGNANÒ MI. PANELLA A. MORETTI B

VASCULAR GYMNASTICS

With CHELT Therapy it is possible to activate an intense vascular exercise generated by the synergistic effect between the vasodilation linked to the production of NO of photobiomodulation and the intense vasoconstriction of cryotherapy.

This vascular training accelerates the natural healing process, allowing for a fast and safe treatment.

DEEP PHOTOBIOMODULATION

The superficial vasoconstriction inhibits the flow of oxygenated haemoglobin, a chromophore for the laser radiation, and consequently allows the continuous reaching of the deepest tissue layers, favouring the penetration of the laser beam. The innovative synergy offered by CHELT Therapy makes it possible to optimise treatments in order to obtain concrete and perceptible results in a short time.

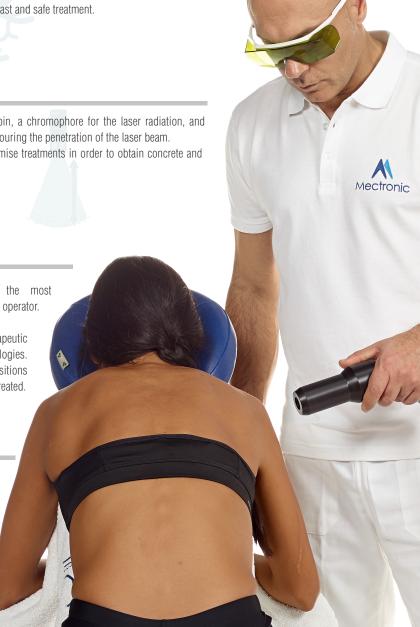
THERAPEUTIC PROTOCOLS

CHELT Therapy incorporates a new user interface to provide the most advanced, comprehensive and intuitive control software for the operator.

CHELT Therapy features a pathology library with more than 150 therapeutic protocols, divided into phases, for the treatment of the most common pathologies. The protocols are also tailored to the different tissue compositions and adapted to the phototype and age of the patients to be treated.

PATENTED THERMAL CONTROL

CHELT therapy is applicable on multiple musculoskeletal pathologies and also features vobulatory thermal control, which allows treatments within specific thermal thresholds to maximise therapeutic results and activate photobiomodulation in the best possible way.



MODELS

λ POWER	450 nm	650 nm	780 nm	810 nm	905 nm	980 nm	1064 nm	1210 nm
30 W	//	2 W	//	8 W	10 W	//	10 W	//
30 W	//	2 W	//	8 W	//	10 W	10 W	//
50 W	//	2 W	10 W	8 W	10 W	10 W	10 W	//
92 W	10 W	2 W	15 W	15 W	15 W	15 W	15 W	5 W

TECHNICAL SPECIFICATIONS

TECHNICAL SPECIFICATIONS						
SOFTWARE	Proprietary Real-Time Operating System MecOS 5.0					
WAVELENGTH*	In the 400 to 1210 nm range, mixable with the innovative patented Lambda Mixer system					
GUIDE LIGHT	650 nm - up to 3 mW					
LASER POWER	Up to 92 W					
EMISSION MODE	Continuous (CW), Single Pulse, Puls1, Puls2, Puls3, E²C (patented stochastic mode), AntInf, HPM, Dimmer, Burst, Wave creator					
MODALITIES OF Work	- Manual					
SPECIAL MODES	Joule Mode, Timer Mode, Trigger Point Mode, Effect Finder, Tissue Target System and Tissue Thermal Control Mode					
EFFECTS MODES	Protocols for maximising the main effects - Biostimulating - Anti-inflammatory - Decontracting - Anti-oedema - Analgesic					
MODE Automatic Scanx	SCANX automatic mode (Optional)					
PROTOCOLS	-Over 150 predefined protocols - Possibility of creating customised protocols					
CALIBRATION	Graphic and acoustic laser emission control system on exit from the handpiece, according to CEI EN 60825-1					
DISPLAY	15.6" Full HD TFT colour touch-screen display					
POWER SUPPLY	230V - 50Hz					
ABSORPTION	3500 VA					
DIMENSIONS	400 x 823 x 1398 mm					
WEIGHT	90 Kg					
LASER CLASS	IV					
BEAM DIVERGENCE	25°					
PULSE DURATION	1-1000 ms					
CLASSIFICATION IP	Device: IPX0 Handpiece: IPX0 Pneumatic foot pedal: IPX4					
CONDITIONS OF O P E R A T I N G CONDITIONS	10°C TO 45°C 30 to 75% non-condensing humidity 700 to 1060 hPa					
CONDITIONS OF TRANSPORT AND STORAGE	-10 \div 55°C 10 \div 100% non-condensing humidity 500 \div 1060 hPa					
EMP	Maximum permitted emission on the skin 5600W/m²					
EMP	Maximum permitted emission on the cornea 9W/m²					
DNRO	Nominal Ocular Hazard Distance 13.5m (50W) 18m (90W)					
CONFORMITÀ	IEC/EC 60601-1; IEC 60601-1-2;IEC 60601-2-22					
CERTIFICAZIONE	CE0051					
DIRETTIVA 93/42	IIb Classification					

^{*} specified on licence plate data

OUR PARTNERS IN SPORT



















Roos Medical

Telefoon: 038 - 460 64 66

www.roosmedical.nl info@roosmedical.nl

MECTRONIC MEDICALE s.r.l.

Via Orio al Serio 15, 24050 Grassobbio (BG) - ITALY Tel: +39 035656080 | Fax: +39 035657361



www.mectronicmedicale.com | info@mectronicmedicale.it