

40 YEARS OF
INNOVATION
& **EXPERIENCE**

CHELT THERAPY

CRYO HIGH ENERGY LASER THERAPY

 Mecmedix



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



REDUCES
RECOVERY TIME



ACTIVATES INTENSE
VASCULAR GYMNASTICS



DEEP
PHOTOBIMODULATORY
ACTION



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 analgesic 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.

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 PHOTOBIOIMODULATION

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 volatutory thermal control, which allows treatments within specific thermal thresholds to maximise therapeutic results and activate photobiomodulation in the best possible way.

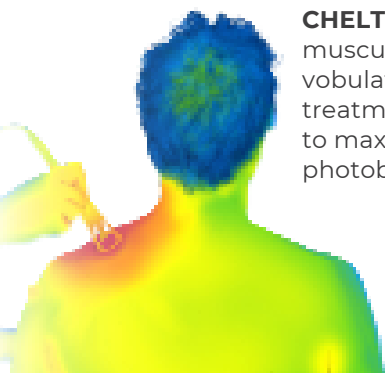
SCIENTIFIC RESEARCH

CHELT Therapy is the result of years of innovation and scientific research, developed through Mecmedix'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

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



INCLUDED

APPLICATORS



Small IR XP laser applicator with temperature control system
Small applicator suitable for small districts and trigger point treatments.



Large IR XP laser applicator with temperature control system
Large applicator ideal for large area treatment.



Small Spheric XP laser applicator
Allows you to treat both trigger points and small anatomic districts, combining mechanical pressure and massage during treatment with therapy.



Large Spheric XP laser applicator
Allows you to treat large anatomic districts by associating a massage and a mechanical pressure during therapy treatment.



Collimated XP laser applicator
Applicator with optical system that can create a spot with a diameter of 10 mm. This applicator allows you to deal with Trigger points and small size anatomical districts with extreme precision.

ACCESSORIES



Protective eyeglasses
Rosso + IR + CO₂



Protective eyeglasses
700-1100 + CO₂



XP/PL applicators case

OPTIONALS

AIR MODULE



Chelt spherical AIR applicator



Chelt spherical-flat AIR applicator

APPLICATORS



Collimated XP laser applicator with IR sensor
This applicator allows you to deal with Trigger points and small size anatomical districts with extreme precision thanks to the skin temperature control system.



Aurix XP laser applicator for auriculotherapy (applicator + fiber)
This applicator can be used in auriculotherapy, acupuncture or when it is necessary to administer energy with extreme precision.



Micro Spheric XP laser applicator
Applicator suitable for the treatment of very small areas, Trigger Points and myofascial points, delivering mechanical pressure and massage during the treatment.



Variable Focus laser applicator XP with IR sensor
Allows you to change the size of the spot depending on the specific pathological condition, modifying the power density of the treatment.



Fixed Focus XP laser applicator
Applicator allows you to focus the spot in order to be able to use the generic surgery device. This applicator has many applications in the surgical, dental and podological fields.

KIT SCANX



ScanX XP arm with magnetic attachment system



ScanX Small / Large Conical applicator for XP handpiece
diam. 70 mm / diam. 120 mm



Software Update



Patient button

MODELS

POWER \ λ	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

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, E ² C (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 OPERATING CONDITIONS	10°C TO 45°C 30 to 75% non-condensing humidity 700 to 1060 hPa
CONDITIONS OF TRANSPORT AND STORAGE	-10 ÷ 55°C 10 ÷ 100% non-condensing humidity 500 ÷ 1060 hPa
EMP	Maximum permitted emission on the skin 5600W/m ²
EMP	Maximum permitted emission on the cornea 9W/m ²
NOHD	Nominal Ocular Hazard Distance 13.5m (50W) 18m (90W)
CONFORMITY	IEC/EC 60601-1; IEC 60601-1-2; IEC 60601-2-22
CERTIFICATION	CE0051
DIRETTIVA 93/42	IIb Classification
WARRANTY	2 years

* specified on licence plate data

SUPPORTING CHAMPIONS

Mecmedix is proud to collaborate with some of the world's leading professional teams and athletes. Our technologies are chosen to **enhance performance, accelerate injury recovery, and ensure the best physical well-being** for high-level athletes.



FORNITORE
UFFICIALE
2024/25



BENEFITS for SPORTS



FAST
RECOVERY



PREVENTION
OF RECURRENT
INJURIES



ADVANCING THERAPY, EMPOWERING PROFESSIONALS

Mecmedix empowers healthcare professionals with cutting-edge technology and specialized training, ensuring optimal treatment outcomes. Through global education programs and expert support, we enhance skills and set new standards in rehabilitation.



50+

TRAINING COURSES
PER YEAR

Ongoing **professional
education** for
therapists.



PROVEN EFFICACY SUPPORTED BY

19.000+

Over 19,000 scientific studies
confirm the effectiveness
behind Mecmedix therapies.



300.000+

THERAPISTS TRAINED

Devices used by over 300,000
professional therapists



70.000+

Mectronic/Mecmedix devices
used in clinics and hospitals



MYMECMEDIX: YOUR
ONLINE HUB FOR
**COURSES, TRAINING,
SUPPORT AND THERAPY
INSIGHTS**



200+

Therapy protocols
developed and tested.

NEVER STOP **INNOVATING** A **HEALTHIER WORLD**

Mecmedix brings together cutting-edge technology, global expertise, and a commitment to personalized care. Our therapies not only speed up recovery but are designed to be effective for every patient, offering personalized protocols for tangible results.

As we look to the future, we invite you to explore how our advanced therapies are enhancing lives around the world.

At Mecmedix, health is our mission.

Join Us on our Journey to a Better Health



Mecmedix

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