

4

YEARS OF
OPERATION
EXPERIENCE

MHEL

THERAPY
ILUX PLUS
LASERTHERAPY



MHEL THERAPY

MHEL (Multi-mode High Energy Laser) laser therapy is a high-energy laser methodology designed by Mecmedix: it allows for excellent therapeutic results thanks to the possibility of modulating laser emission.

THE LASER THERAPY EQUIPMENT, POWERFUL AND VERSATILE

ILux PLUS is the result of more than 40 years of experience of Mecmedix in the laser therapy field through scientific research and technological innovation. A cutting edge device, designed to offer to the therapist all the tools needed for a successful and versatile treatment.

MANY POWERFUL CONFIGURATIONS UP TO 30W

UP TO 3 WAVELENGTHS

650nm - 810nm - 980nm - 1064nm

ENERGY SUPPLY

FOR A PROPER CLINICAL DOSAGE

13 EMISSION MODES

IN ONE LASER DEVICE

LIGHT BLADE HPS HANDPIECE

The innovative Light Blade HPS handpiece allows an easy and immediate therapy control.

FINGER SWITCH

Control the laser emission from the handpiece

APPLICATOR PRESENCE IDENTIFICATION

Thanks to the ultra-compact system

PATENTED MAGNETIC ATTACHMENT

Easy change of the applicator



WAVELENGTHS

650nm

Due to the high absorption coefficient of Cytochrome C Oxidase toward this wavelength, the photobiomodulation mechanism can be triggered. It ensures significant energy exchange at the surface and mid-depth levels and inhibits bacterial proliferation. It enables excellent results in the healing of wounds, sores and ulcers.

810nm

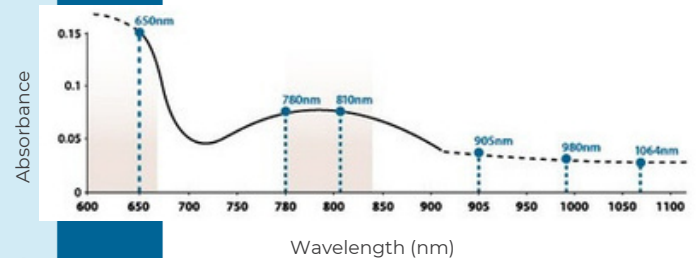
Due to the high absorption coefficient of Cytochrome C Oxidase towards this wavelength, the photobiomodulation mechanism can be triggered. It allows rapid activation of the hemoglobin oxygenation process: by transferring the correct energy supply to muscles and tendons, it promotes their regeneration.

980nm

Mainly absorbed by water, it enables optimized action on thermo- and mechanoreceptors. When combined with the E°C mode it ensures the right interaction with the peripheral nervous system, activating the Gate Control mechanism for a rapid analgesic effect.

1064nm

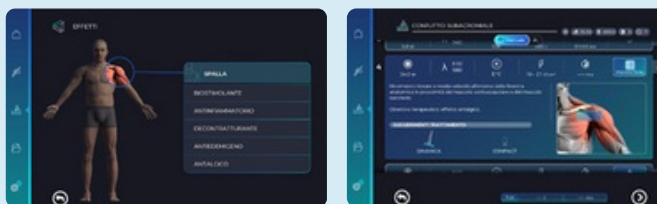
Is the wavelength with the least scattering within biological tissues. Its high directionality allows the correct dose of energy to be channeled onto the noxa. The result is a perfect synergy that harmonizes the rapid analgesic effect with a control of inflammatory processes and deep activation of metabolic processes triggered by photobiomodulation.



"Re-evaluation of the near infrared spectra of mitochondrial cytochrome oxidase: Implications for non invasive in vivo monitoring of tissues" (2014) G.Mason, P. Nicholls, E. Cooper



THERAPEUTIC PROTOCOLS



iLux PLUS has an interactive menu with the possibility of using therapeutic protocols specially designed and divided according to the anatomical district to be treated.

It is also possible to create and save customized protocols, choose to treat the patient according to the effect to be obtained or select one of the non-localized preset pathologies.

REAL-TIME UPDATE

iLux PLUS has a USB socket on the back of the device, thanks to which it is possible to constantly update the software.



SCANX MODE (OPTIONAL)

Thanks to the two patented magnetic cones and the articulated arm, **iLux PLUS** can be easily used as an independent laser operator by switching with a simple gesture from manual mode to automatic ScanX mode.



CALIBRATION

iLux PLUS are equipped with a laser emission control system at the exit of the handpiece in accordance with the CEI EN 60825-1 standard.



TECHNICAL SPECIFICATIONS

SOFTWARE	Operating System Real-Time owner MecOS 5.0
WAVELENGTH*	650 nm, 1064 nm, 810 nm + 980 nm + 1064 nm
GUIDE LIGHT	650 nm - up to 3 mW
LASER POWER	up to 60 W
EMISSION MODE	13 emission modes: Continue (CW), Pulsed (PULS 1, PULS 2, PULS 3), Burst , E²C (patented stochastic mode), Antinf , Custom , HPM , Singole Impulse , Dimmer , PBM , THP
WORKING MODES	Manual, Single Pulse, Burst, Custom mode
SPECIAL MODES	Joule, Timer, Trigger Point
EFFECTS MODES	Protocols in order to maximize therapeutical results: Biostimulant , Anti-inflammatory , Decontracting , Anti-edema , Analgesic
SCANX AUTOMATIC MODE	SCANX automatic mode (Optional)
PROTOCOLS	<ul style="list-style-type: none"> Over 150 pre-set protocols Creation of custom modes
CALIBRATION	Graphic and acoustic control system for laser emission at the exit from the handpiece, according to CEI EN 60825-
DISPLAY	10.1" HD IPS color display with capacitive touchscreen
POWER SUPPLY	100÷240V 50÷60Hz 160 VA
ABSORPTION	100÷240V 50÷60Hz 160 VA
DIMENSIONS	<ul style="list-style-type: none"> Without cart: 295 x 265 x 150 mm With cart: 516 x 516 x 1017 mm
WEIGHT	<ul style="list-style-type: none"> Without cart: 5 Kg With cart: 24 Kg
LASER CLASS	IV
BEAM DIVERGENCE	25°
PULSE DURATION	1-1000 ms
CLASSIFICATION IP	Device: IPX0 Handpiece: IPX0 Pneumatic Foot Switch: IPX4
CONDITIONS OF OPERATING CONDITIONS	10°C ÷ 30°C 30 ÷ 75% non-condensing humidity 700 ÷ 1060 hPa
CONDITIONS OF TRANSPORT AND STORAGE	-10 ÷ 55°C 10 ÷ 100% non-condensing humidity 500 ÷ 1060 hPa
EMP	Maximum emission allowed on skin 5600W/m ²
EMP	Maximum emission allowed on cornea 9W/m ²
DNRO	Nominal Ocular Hazard Distance 2,4m
CONFORMITY	EN 60601-1; EN 60601-1-2; EN 60601-2-22
DIRECTIVE 93/42	IIb Classification
WARRANTY	2 YEARS



SUPPORTING CHAMPIONS

Mecmedixis 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.

 **TECHNICAL SUPPLIER**
MEDICAL EQUIPMENT



 **Mecmedix**

FORNITORE UFFICIALE
2024/25



FINP
FEDERAZIONE ITALIANA NUOTO PARALIMPOICO



BENEFITS for SPORTS



FAST RECOVERY



PREVENTION OF RECURRENT INJURIES



AN APPLICATOR FOR EACH TREATMENT

A wide set of applicators for different therapeutic needs. Each applicator is specifically designed to optimize treatment effectiveness and ensure maximum precision and comfort for the patient.



ILUX PLUS

HANDPIECE, APPLICATORS AND ACCESSORIES



Small laser PLUS applicator
Small applicator suitable for small districts and trigger point treatments.



Protective eyeglasses (2pz)



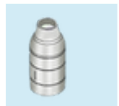
Large laser PLUS applicator
Large applicator ideal for large area treatment.



Plus cart vers. Laser Plus

OPTIONALS

HANDPIECE AND APPLICATORS



Collimated laser applicator



Fixed Focus laser applicator



Zoom-Focusable applicator for laser



Spheric large laser applicator



Spheric compact laser applicator

KIT SCANX



Patient button



ScanX arm with magnetic attachment system



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



Software Update

ACCESSORIES



XP/PL applicators case



Soft bag for transport
34 x 34 x 20cm



Rigid bag for transport
47 x 35 x 25cm

AN APPLICATOR FOR EACH TREATMENT

A wide set of applicators for different therapeutic needs.

Each applicator is specifically designed to optimize treatment effectiveness and ensure maximum precision and comfort for the patient.



ILUX PLUS

HANDPIECE, APPLICATORS AND ACCESSORIES



Small laser PLUS applicator

Small applicator suitable for small districts and trigger point treatments.



Protective eyeglasses (2pz)



Large laser PLUS applicator

Large applicator ideal for large area treatment.



Plus cart vers. Laser Plus

OPTIONALS

HANDPIECE AND APPLICATORS



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.



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.



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.



Large Spheric XP laser applicator

Allows you to treat large anatomic districts by associating a massage and a mechanical pressure during therapy 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.

KIT SCANX



Patient button



ScanX arm with magnetic attachment system



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



Software Update

ACCESSORIES



XP/PL applicators case



Soft bag for transport
34 x 34 x 20cm



Rigid bag for transport
47 x 35 x 25cm

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+

Mecmedix/Mecmedix devices used in clinics and hospitals



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



200+

Therapy protocols developed and tested.



NEVER STOP **INNOVATING** *for*
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



www.mecmedix.com

movemed[®]

medical solutions for people's treatment

www.movemed.gr