



iLUX SMART

WHAT IS iLUX SMART?

THE PERFECT COMPROMISE BETWEEN PERFORMANCE AND FUNCTIONALITY

iLUX SMART is a cutting-edge device for laser therapy and the result of over 40 years of experience in the design of medical laser systems. **iLUX SMART** is light, compact and easy to use: these features, combined with its performance make it the perfect partner for any therapist who needs an intuitive and reliable device by his side in everyday work.

iLUX SMART is safe, non-invasive, painless, effective and allows customizing the therapy in order to treat numerous pathologies.



COMPACT, LIGHT AND
EASY TO TRANSPORT



EASY AND INTUITIVE
USE



FULL CONTROL
VIA TOUCH SCREEN



DIFFERENT APPLICATORS
FOR A TARGETED
TREATMENT



EMISSIONS IN
ONE LASER



PROTOCOLS FOR
EFFECTS AND PATHOLOGY

LIGHT AND COMPACT



Mectronic's **SMART line** includes a new range of compact, portable and easy to use products, able to offer an effective therapy for every need.

The **SMART line** is the ideal solution for the therapist who is looking for a small device, without making compromises in terms of excellent performance and ease of use that characterizes Mectronic devices.

THE CONTROL IS IN YOUR HANDS



SIMPLE AND INTUITIVE

SMART is the keyword of this product line signed by Mectronic: each device is designed to be easy to use, featuring a highly intuitive user interface.

iLux Smart is “plug and play”: after turning on the device it is already possible to operate and treat with only a couple of simple operations. Moreover **iLux Smart** offers a large number of customization options, allowing the operator to optimize the therapy by maximizing the therapeutic effects.

Thanks to its 7” IPS touchscreen, the MecOS 5.0 operating system guides the operator through the management of the therapy in a simple and intuitive way guaranteeing practical results from the very first use.

The user interface is designed to be easy to use and browse, allowing the operator to set up the therapy straight away.

The technology used in **iLux SMART** guarantees power and accuracy, as well as an effective treatment for all therapeutic needs.



VERSATILITY AND EFFICIENCY

iLux SMART features a comfortable and compact handpiece without compromising the versatility necessary for effective therapy.

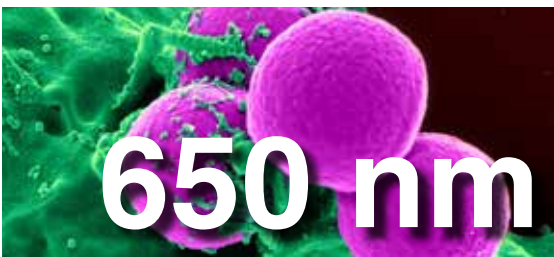


MAGNETIC ATTACHMENT

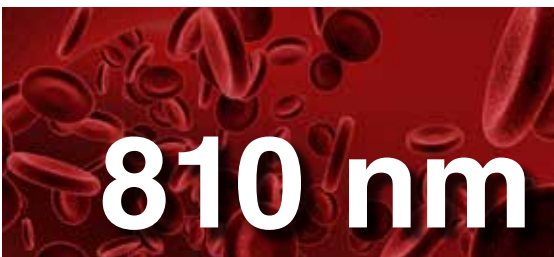
The control of the therapy is strictly connected to the handpiece and applicators. For this reason Mectronic has redesigned the ergonomics and functionality of the handpiece by providing a patented magnetic attachment, allowing the operator to quickly change the applicator for a simpler and more effective therapy.

4 WAVELENGTHS AVAILABLE

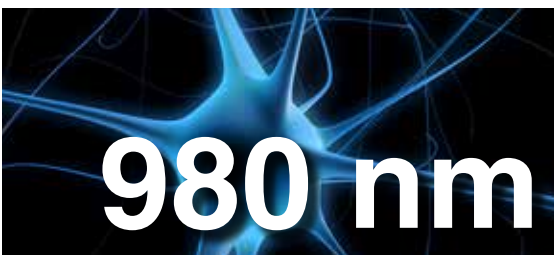
The **four available wavelengths, 650 nm, 810 nm, 980 nm and 1064 nm**, have different characteristics, particularly in their specific interaction with chromophores:



The photobiomodulation mechanism can be triggered thanks to the high absorption coefficient of Cytochrome C Oxidase towards this wavelength. It guarantees considerable energy exchange on the surface and medium depth level and inhibits bacterial proliferation. It allows obtaining excellent results in healing injuries, sores and ulcers.



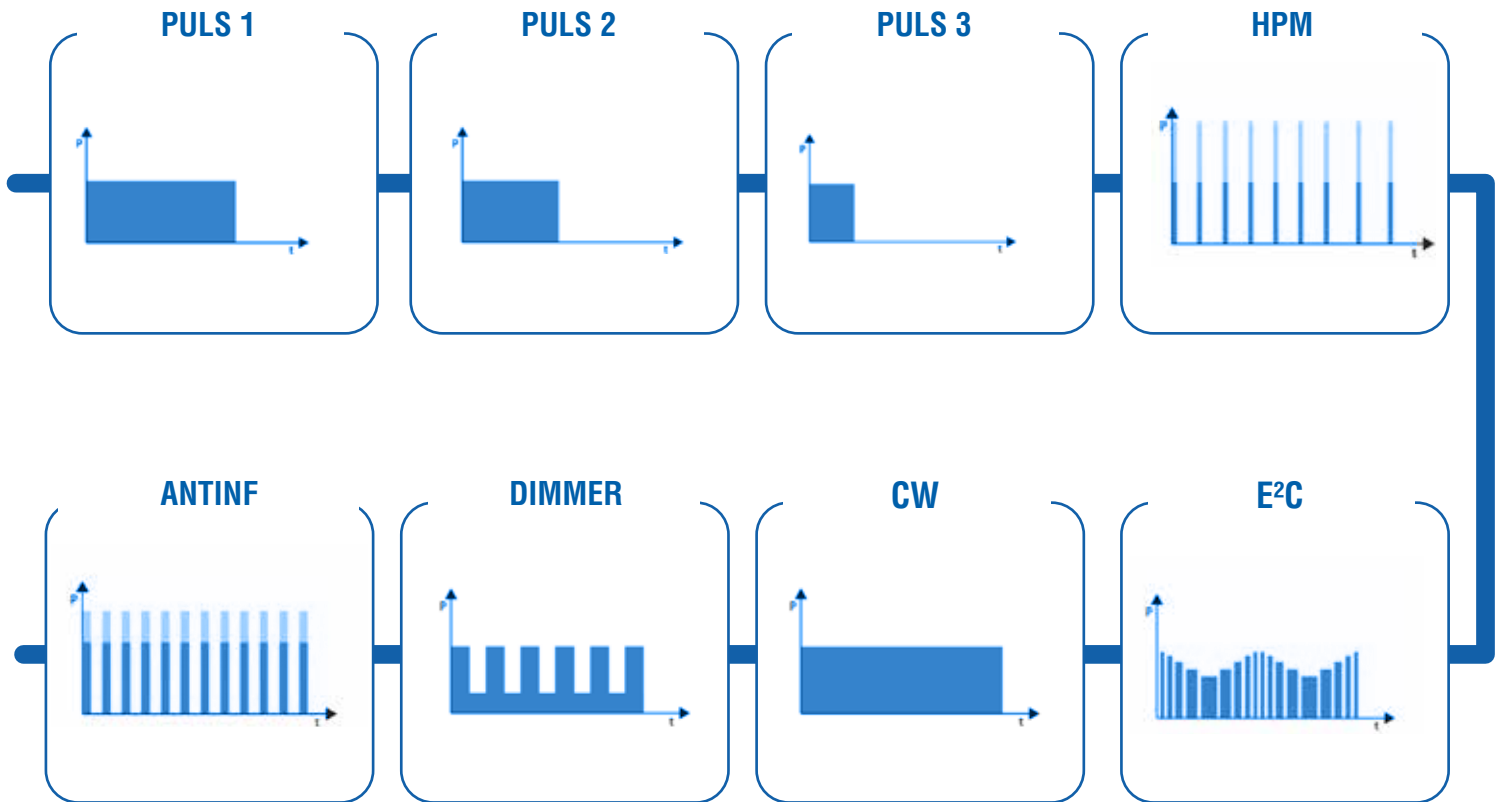
The photobiomodulation mechanism can be triggered thanks to the high absorption coefficient of Cytochrome C Oxidase towards this wavelength. It allows rapid enabling of the hemoglobin oxidation process: it facilitates their regeneration by transferring the right energy supply to muscles and tendons.



Mainly absorbed by water, it allows optimizing the action on thermoreceptors and mechanoreceptors. If combined with the E²C mode, it ensures the right interaction with the peripheral nervous system, enabling the Gate Control mechanism for rapid analgesic effect.



THIS IS the wavelength with the least dispersion inside biological tissues. Its high directionality allows conveying the correct dose of energy to the noxa. The result is a perfect synergy that balances the rapid analgesic effect, the inflammatory processes control and the activation of the metabolic processes triggered by photobiomodulation.



Therapeutic lasers represent an important resource for physiotherapy and their efficacy on tissues becomes an essential requirement when choosing among the various devices available on the market. The operator must be able to treat both chronic and acute problems, guaranteeing the best possible results.

This is why Mectronic has implemented a wide range of emission modes in a single laser, increasing its effectiveness.

TREATMENT MANAGEMENT

PATHOLOGY LIBRARY

The pathology library includes numerous pathologies with related interactive protocols. The software also provides immediate graphic feedback, which displays the power, time and actual energy delivered by the device.

TREATMENT GUIDE

The pathology library includes a protocol dedicated to each pathology, both acute and chronic. The images clearly show how to treat the patient.



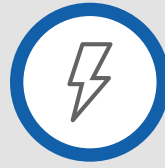
A PROTOCOL FOR EVERY NEED

To further customize the therapy, **iLux SMART** has different types of pre-set protocols that allow every therapist to find the right solution for his need.



TIME MODE

The Time mode allows the therapist to set a specific time mode during which the therapy can be performed. The therapy stops automatically when the set value is reached.



Joule mode allows the therapist to set the determined amount of energy necessary for the treatment. The therapy stops automatically when the set value is reached.



PATHOLOGY PROTOCOLS

iLux SMART offers a complete pathology library with over 80 therapeutic protocols to treat the most common problems. The software also offers the safety of instant visual feedback displaying power, delivery mode, therapy time and treatment area.

JOULE mode



PROTOCOLS FOR EFFECTS

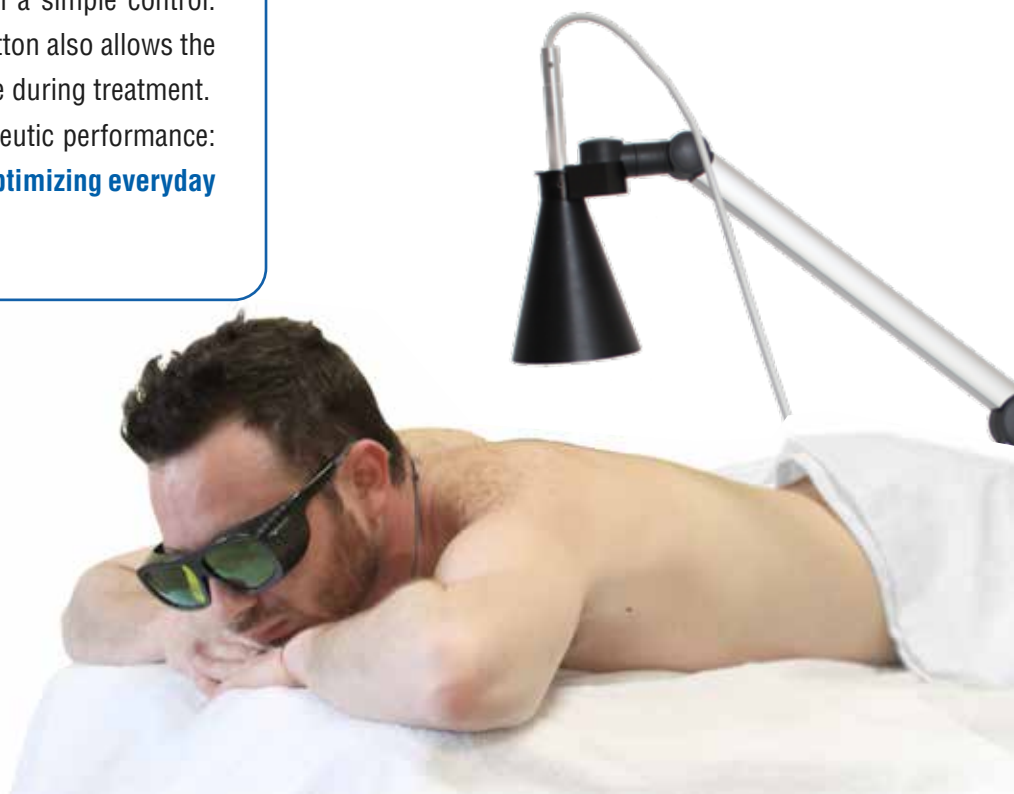
iLux SMART allows the operator to work in order to obtain specific effects: **biostimulant, anti-inflammatory, anti-edema, analgesic and contracture-relieving.**

SCANX MODE (OPTIONAL)











TIME OPTIMIZATION

Thanks to the patented magnetic conical attachments, **iLux SMART can be easily used as an independent operator laser**, changing modes with a simple control. The innovative and practical safety button also allows the patient to interrupt therapy at any time during treatment. Flexibility, practicality and high therapeutic performance: **iLux SMART is the ideal partner for optimizing everyday work.**











ACCESSORIES

INCLUDED

	Code 50APEX-ME SMART small applicator		Code 50OC.LV+B * N² Safety goggles 651-MTM
	Code 20PE.PNEUM Pneumatic Footswitch		Code 20PE.LZR.C+P Pneumatic Footswitch with cover
	Code 30METRO-MM Tape-measure (with Mectronic logo)		Code 30ST.LAMP-MM Laser warning sign with Flashing light
	Code 20CO.INT3P 3-pole Interlock		Code 50WI.AL2MT.SCH Power cord With Schuko plug

OPTIONAL

	Code 50APEX-GR SMART large applicator		Code 50APEX-PT SMART spheric compact applicator
	Code 20AP.HPS.ENT Special safety goggles 659 For red laser light		Code 30CL.PLS-L PLUS trolley, Tecar version For device and accessories 516 x 516 x 840 mm
	Code 30BO.F-MM NYL Flex protective bag For device transport		Code 30BO.R-MM Rigid protective bag For device transport
	Code 50WI.AL2MT-IT Power cord with Italian plug		Code 30WI.AL90.SCH Power cord with 90° Schuko plug

SCANX (OPTIONAL)

	Code 30BR.SCANX.XP ScanX arm with magnetic coupling conical holder		Code 30WI.PPAZ Patient safety button for therapy interruption
	Code 50AP.SM-C120 ScanX large conical applicator For SMART handpiece, Ø 120 mm		Code 50AP.SM-C70 ScanX small conical applicator For SMART handpiece, Ø 70 mm
	Code 20SW.SCANX.SM ScanX automatic mode software update For iLux SMART		

TECHNICAL SPECIFICATIONS

SOFTWARE	Mectronic's own MecOS 5.0 Real-Time Operating System
WAVELENGTH	- 650 nm - 810 nm - 980 nm - 1064 nm
GUIDE LIGHT	650 nm - up to 3 mW
LASER POWER	Up to 15 W
ISSUE	- Continuous (CW) - E ² C (patented stochastic mode) - AntinF - Puls1, Puls2, Puls3 - Dimmer - HPM
SPECIAL MODES	- Joule - Timer - Trigger Point
EFFECT MODES	Protocols to maximize the main effects: - Biostimulant - Analgesic - Anti-inflammatory - Anti-edema - Contracture-relieving
MODE AUTOMATIC MODE	ScanX automatic mode (Optional)
PROTOCOLS	Over 80 preset protocols
CALIBRATION	Display and acoustic control system for laser emission at handpiece exit according to IEC EN 60825-1
DISPLAY	7" TFT IPS color display with capacitive touch screen
POWER SUPPLY	100÷240V 50÷60Hz
ABSORPTION	160 VA
DIMENSIONS	- CASE: 295 x 265 x 147 mm - WITH TROLLEY: 516 x 516 x 1015 mm
WEIGHT	- CASE: 4 Kg - WITH TROLLEY: 23 Kg
LASER CLASS	IV
BEAM DIVERGENCE	25°
PULSE WIDTH	1-1000 ms
IP CLASSIFICATION	Device: IPX0 Handpiece: IPX0 Pneumatic Footswitch: IPX4
OPERATING CONDITIONS	0 ÷ 30°C 30 ÷ 75% non-condensing humidity 700 ÷ 1060 hPa
TRANSPORT AND STORAGE CONDITIONS	-10 ÷ 55°C 10 ÷ 100% non-condensing humidity 500 ÷ 1060 hPa
MPE	Maximum permissible exposure on skin 5600W/m ²
MPE	Maximum permissible exposure on cornea 9W/m ²
NOHD	Nominal Ocular Hazard Distance 2,4m
COMPLIANCE	EN 60601-1; EN 60601-1-2; EN 60601-2-22
CERTIFICATION	CE0051
DIRECTIVE 93/42	IIb Classification
WARRANTY	2 YEARS



OUR PARTNERS IN SPORTS



FOLLOW US:



We point out that all technical specifications, information and figures contained in this document are purely indicative. MECTRONIC MEDICALE S.r.l. reserves the right to change the data, figures and information contained in this document at any time and without notice.

Mectronic MedicaLe srl - BR_LSF_EN_2020-11-002



via Orio al Serio, 15
24050 Grassobbio
Bergamo (Italy)

Tel +39 035656080
Fax +39 035657361

www.mectronicmedicale.com
info@mectronicmedicale.it