



# iLUX PLUS

LASER THERAPY EQUIPMENT

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## THE LASERTHERAPY EQUIPMENT, POWERFULL AND VERSATILE

**iLux PLUS** is the result of more than 40 years of experience of Mectronic 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

### ONE OR TWO WAVELENGTHS

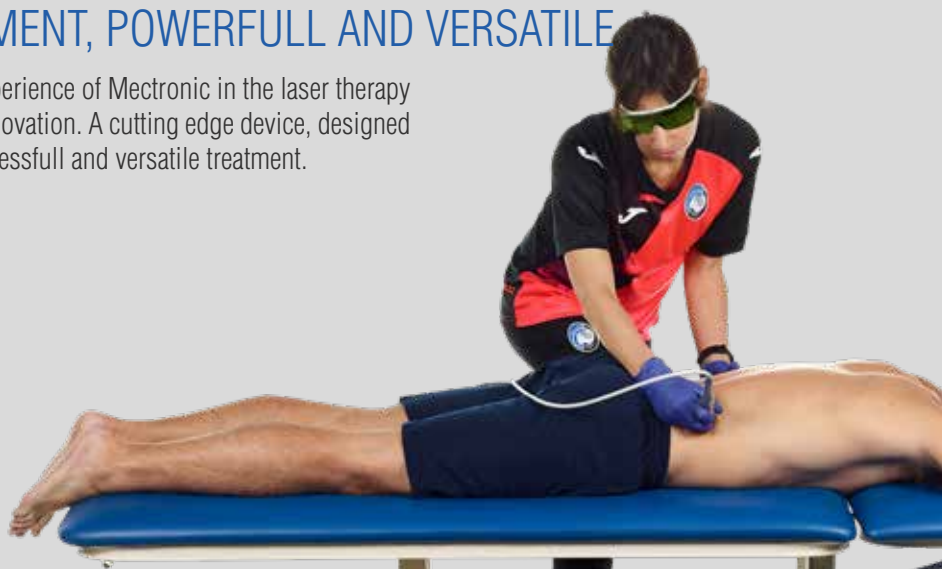
650nm - 810nm - 980nm - 1064nm

### ENERGY SUPPLY

FOR A PROPER CLINICAL DOSAGE

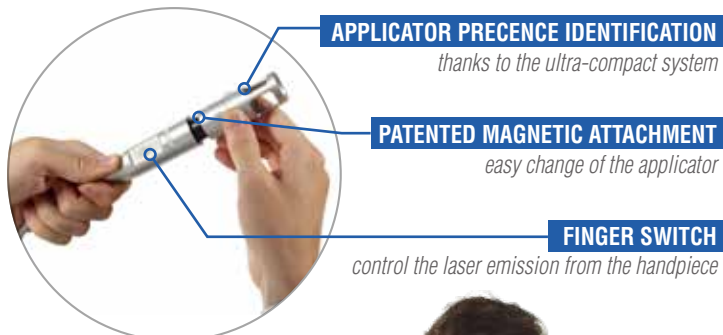
### 13 EMISSION MODES

IN ONE LASER DEVICE



## LIGHT BLADE HPS HANDPIECE

**iLux PLUS** is equipped with the innovative **Light Blade HPS** handpiece, which allows an easy and immediate therapy control.



#### APPLICATOR PRESENCE IDENTIFICATION

*thanks to the ultra-compact system*

#### PATENTED MAGNETIC ATTACHMENT

*easy change of the applicator*

#### FINGER SWITCH

*control the laser emission from the handpiece*



Sara Loda - VOLLEY BERGAMO CAPTAIN

## WAVELENGTHS

### 650nm

Thanks to the high absorption coefficient of Cytochrome C Oxidase towards this wavelength, it is possible to trigger the photobiomodulation mechanism. It guarantees a remarkable energy exchange at the surface and medium depth and inhibits bacterial proliferation. It allows to obtain excellent results in the healing of wounds, sores and ulcers.

### 810nm

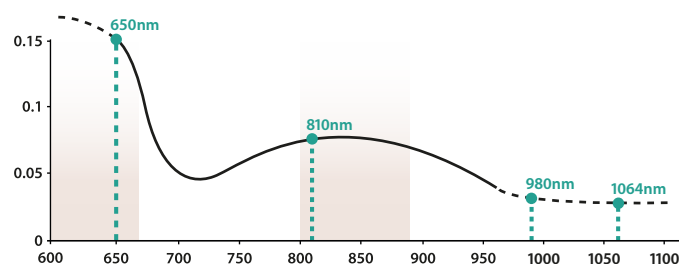
Thanks to the high absorption coefficient of Cytochrome C Oxidase towards this wavelength, it is possible to trigger the photobiomodulation mechanism. It allows rapid activation of the hemoglobin oxygenation process: by transferring the correct energy supply to muscles and tendons, it promotes their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

### 980nm

Mainly absorbed by water, it allows to optimize the action on thermo and mechanoreceptors. If associated with the E<sup>2</sup>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 dispersion within biological tissues. Its high directionality allows to channel the correct dose of energy onto the **noxa**. The result is a perfect synergy that harmonizes the rapid analgesic effect with a control of inflammatory processes and the deep activation of the metabolic processes triggered by photobiomodulation.



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

## THERAPEUTICAL 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 present pathologies.



## CALIBRATION

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



## REAL TIME UPDATING

**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.

## TECHNICAL SPECIFICATIONS

<b>SOFTWARE</b>	Operating System Real-Time owner MecOS 5.0
<b>WAVELENGTHS</b>	650 nm, 1064 nm, 810 nm + 980 nm e 810 nm + 1064 nm
<b>AIMING BEAM</b>	650 nm - up to 3 mW
<b>LASER POWER</b>	up to 30 W
<b>EMISSIONE</b>	13 emission modes: - Continue (CW) - Pulsed (PULS 1, PULS 2, PULS 3) - Burst - E <sup>2</sup> C (mod. stocastica brevettata) - Antinf - Custom - HPM - Singole Impulse - Dimmer - PBM - THP
<b>WORKING MODES</b>	- Manual - Single Pulse - Burst - Custom mode
<b>SPECIAL WORKING MODES</b>	- Joule - Timer - Trigger Point
<b>EFFECTS WORKING MODES</b>	Protocols in order to maximize therapeutical results: - Biostimulant - Anti-inflammatory - Decontracting - Anti-edema - Analgesic
<b>SCANX AUTOMATIC MODE</b>	SCANX automatic mode (Optional)
<b>PROTOCOLS</b>	- over 150 pre-set protocols - creation of custom modes
<b>CALIBRATION</b>	Graphic and acoustic control system for laser emission at the exit from the handpiece, according to CEI EN 60825-1
<b>DISPLAY</b>	Display a colori IPS HD 10,1" con touch screen capacitivo
<b>SUPPLY</b>	100÷240V 50÷60Hz
<b>ABSORPTION</b>	160 VA
<b>SIZE</b>	- WITHOUT CART: 295 x 265 x 150 mm - WITH CART: 516 x 516 x 1017 mm
<b>WEIGHT</b>	- WITHOUT CART: 5 Kg - WITH CART: 24 Kg
<b>LASER CLASS</b>	IV
<b>BEAM DIVENRGENCE</b>	25°
<b>PULSE DURATION</b>	1-1000 ms
<b>IP CLASSIFICATION</b>	Device: IPX0 Handpiece: IPX0 Pneumatic Foot Switch: IPX4
<b>OPERATING CONDITIONS</b>	10°C ÷ 30°C 30 ÷ 75% non-condensing humidity 700 ÷ 1060 hPa
<b>TRANSPORT AND STORAGE CONDITIONS</b>	-10 ÷ 55°C 10 ÷ 100% non-condensing humidity 500 ÷ 1060 hPa
<b>MES</b>	Maximum emission allowed on skin 5600W/m <sup>2</sup>
<b>MEC</b>	Maximum emission allowed on cornea 9W/m <sup>2</sup>
<b>NOHD</b>	Nominal Ocular Hazard Distance 2,4m
<b>CONFORMITY</b>	EN 60601-1; EN 60601-1-2; EN 60601-2-22
<b>CERTIFICATION</b>	CE0051
<b>DIRECTIVE 93/42</b>	IIB Classification
<b>WARRANTY</b>	2 YEARS

## APPLICATORS

### INCLUDED



**Compact PLUS applicator**  
cod. 20AP.HPS.PI  
Ø 23 mm



**Large PLUS applicator**  
cod. 20AP.HPS.GR  
Ø 37 mm



**n°2 Safety glasses 651-MTM**  
cod. 50OC.LV+B\*



**PLUS trolley (laser version)**  
cod. 30CL.PLS-L

### OPTIONALS



**Zoom-Focusable PLUS applicator**  
cod. 20AP.HPS.ZOOM



**Spheric compact PLUS applicator**  
cod. 20AP.HPS.SPH.P



**ENT PLUS applicator**  
cod. 20AP.HPS.ENT



**Fixed Focus PLUS applicator**  
cod. 20AP.HPS.FXFCS



**Flex Bag NYL**  
Cod. 30BO.F-MM

### SCAN X (OPTIONALS)



**ScanX Large conical applicator**  
cod. 20AP.HPS.C120  
Ø 120 mm



**ScanX Small conical applicator**  
cod. 20AP.HPS.C70  
Ø 70 mm



**Patient Button**  
cod. 30WI.PPAZ



**ScanX arm with magnetic attachment system for conical applicators**  
cod. 30BR.SCANX.XP

## OUR SPORT PARTNERS



**TECHNICAL SUPPLIER**  
**MEDICAL EQUIPMENT**



**Mectronic**  
FORNITORE UFFICIALE  
ATALANTA B.C. 2019/20



"PAPU" Alejandro Gomez

\* the code refers to a single unit.

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