













THE EVOLUTION OF LASER THERAPY

Since 1986 Mectronic has been designing and manufacturing devices for physical therapy; over 15000 laser systems produced have ensured its leadership in terms of know-how and experience in the therapeutic laser sector.

Mectronic has achieved important goals starting with the first surgical lasers and CO2 lasers, the result of the collaboration between its team and research centers, universities, national and international institutes.

Mectronic has always stood out for **technological innovation**, bringing forward the main technical and applicative laser innovations for therapeutic purposes by years: from the first use of the Nd:YAG laser in therapeutic mode, to the use of semiconductor

laser sources, from the first three-wavelength laser up to the first broadband 1064nm semiconductor laser system, with more efficient therapeutic effects and with low energy consumption. From then until now, this path has led to the production of ever more efficient devices, with new features and compact dimensions. The last laser signed by Mectronic is **iLux Plus VET**, a platform able to offer numerous settings and emissions for flexible and effective therapy. Thanks to the interactive software and the color touchscreen it has never been easier to set up the therapy.

iLux Plus VET is available in different power and wavelength configurations from 650nm to 1064nm, with one or two wavelengths and with powers up to 30W to best meet the needs of the veterinarian.

40 YEARS OF INNOVATION



10 PATENTS



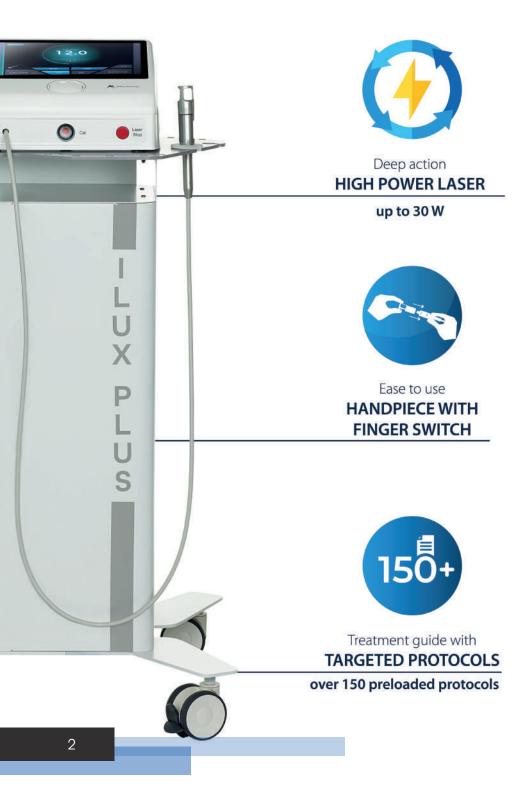
67
COUNTRIES



23.000
DEVICES PRODUCED

With more than 40 years of experience Mectronic is one of the main European manufacturers of physiotherapy equipment and medical lasers, as well as partner of numerous and important universities and research centers.

The continuous technological innovation, constant scientific research and collaborations with leading industry experts, have guaranteed Mectronic safe and innovative therapies for the physical recovery of the patient.



ILUX PLUS VET AND VETERINARY:

A PERFECT DUO

Today laser therapy is widespread worldwide.

Thanks to many international scientific researches, Mectronic has developed **iLux Plus VET**, a device that has proven its effectiveness in improving the lives of both animal and owner.

Thanks to the ability to customize the laser beam characteristics **iLux Plus VET** allows optimizing therapeutic results, by rapidly curing various pathologies of both small domestic and exotic animals, horses and large animals.



WHY CHOOSE **iLux PLUS VET?**

The result of Mectronic's 40 years of technical know-how, today **iLux PLUS VET** represents a reference point for laser therapy.

360 ° REHABILITATION

iLux Plus VET is able to offer a wide range of settings and customizations, effective therapy for every need.

LIGHTWEIGHT AND PORTABLE

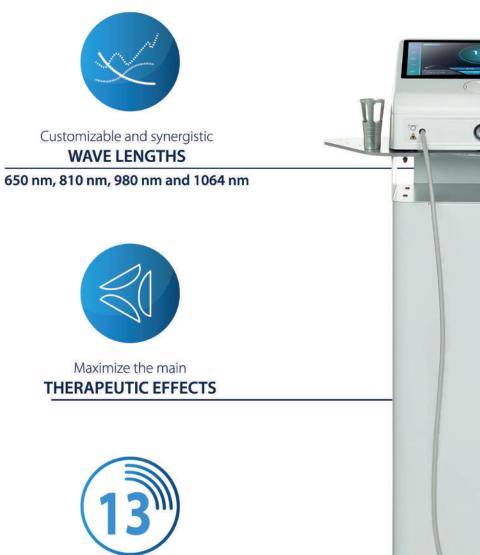
Thanks to iLux Plus VET he operator can rely on a lightweight and portable device, without compromises in terms of quality and safety.

PRECISION AND RELIABILITY

The advanced technology of iLux Plus VET guarantees power, accuracy and effective treatment for all therapeutic needs.

AN INTERACTIVE EXPERIENCE

The touch-screen guides the user through therapy management in a simple and intuitive way; effective from the very first use.





Treatment flexibility

13 THERAPEUTIC **MODES**

including E²C and PBM



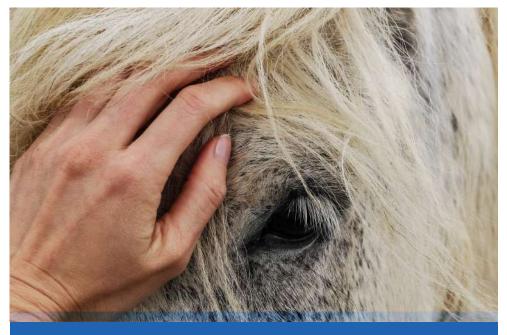




PETS

- Alopecia (non-inflammatory)
- Bacterial skin infections
- Contusions, hematomas and edema
- Degenerative joint diseases
- Disc pathologies
- Eosinophilic granuloma
- Fractures
- Gingivitis/Stomatitis
- Healing of surgical wounds

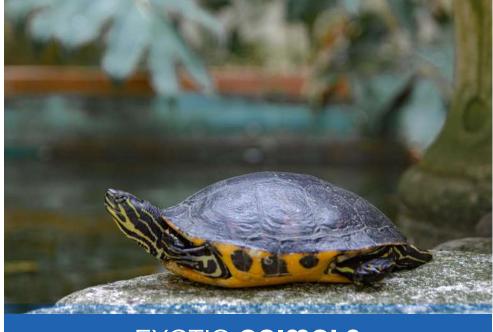
- Hot spot
- Muscle contractures
- Muscle sprains and strains
- Musculoskeletal injuries
- Pain and inflammation
- Perianal fistulas
- Superficial skin lesions (wounds, ulcers, sores)
- Tendon injuries (acute and chronic)
- Trigger Point



LARGE **ANIMALS** AND **HORSES**

- Arthritis
- Backache
- Bursitis/synovitis
- Edema/hematoma
- Epiphysitis
- Fractures
- Laminitis (acute and chronic)
- Muscle contractures
- Naviculitis

- Osteoarthritis
- Osteoarthritis (acute and chronic)
- Pain (acute and chronic)
- Sacroiliac subluxation
- Sprains
- Tendinitis/Desmitis (acute and chronic)
- Trigger Point
- Injury



EXOTIC ANIMALS

- Carapace injuries
- Abscesses and post extraction therapies
- Alopecia
- Inflammation of the anal glands
- Cloacite
- Degenerative joint diseases
- Loss of feathers

- Fractures
- Gingivitis/Stomatitis
- Inflammations (acute and chronic)
- Oral fistulas
- Pain (acute and chronic)
- Pododermatitis
- Itch
- Superficial skin lesions (wounds, ulcers, sores)



SCIENTIFIC

RESEARCH

Mectronic collaborates with various institutes and universities in order to certify the beneficial effects of the therapeutic methods developed. The scientific research staff focuses on an in-depth analysis of the therapeutic application of various biophysical stimulations in musculoskeletal diseases.

In particular, scientific research is almost completely lacking in studies regarding specific clinical trials in the face of a progressive wide clinical use of high-tech therapies.

This lead to prospective randomized clinical trials to analyze the short and long term clinical effects of the laser.

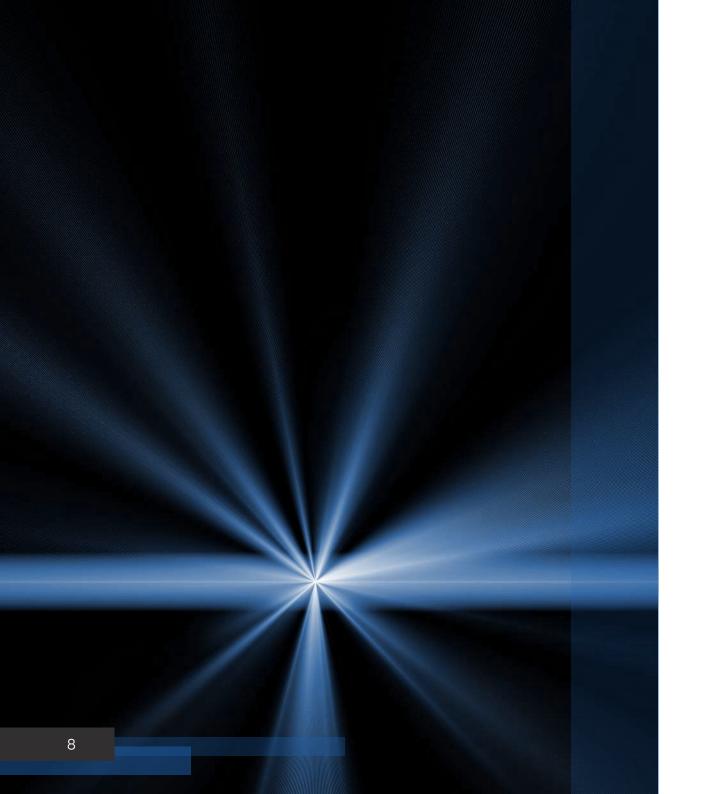
SCIENTIFIC STUDIES

- 1. "Pain and electrophysiological parameters are improved by combined 830-1064 high-intensity LASER in symptomatic carpal tunnel syndrome versus Transcutaneous Electrical Nerve Stimulation", Casale R., Damiani C., Maestri R., Wells C.D., European Journal of Physical and Rehabilitation Medicine, 2012, 48:1-2
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- 3. "Tri-length laser therapy associated to tecar therapy in the treatment of low-back pain in adults: a preliminary report of a prospective case series", Osti R, Pari C, Salvatori G, Massari L., Epub 2014 Nov 7
- 4. "Tri-length laser therapy associated to tecar therapy in the treatment of low-back pain in adults: a preliminary report of a prospective case series", Osti R, Pari C, Salvatori G, Massari L., Epub 2014 Nov 7
- 5. "Temperature controlled high energy adjustable multimode emission laser therapy in the treatment of the chronic low back pain", Notaricola A, Solarino G, Covelli I, Rifino F, Moretti B. Epub 2018 Jan 2

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- 2. Castellacci E., Ciuti F., Conforti M., Di Domenica F., "Il Nd:YAG e La terapia Laser ad Alta Energia", Bologna, Edizioni Martina, 2003
- 3. Magni Luca, "Laser therapy and basketball 2001, Laser & Technology". Giugno 2002. 24-29
- 4. Miglio D., "Use of high power neodynium yag laser and fcz laser in the treatment of pubalgia, Laser & Technology", Maggio-Dicembre 2001, 46-48
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HIGH-POWER LASER

Therapeutic efficacy and depth of action

Many of the diseases that affect the musculoskeletal system are located in depth. When the cause of the disease is located so deeply, it is very difficult to intervene to relieve the pain. Laser Therapy becomes essential in these cases: its beneficial effects ensure optimal physical recovery.

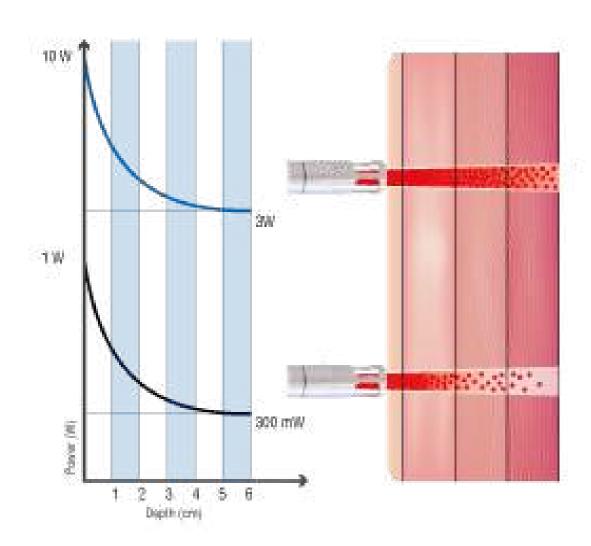
An advantage of Laser Therapy is the ability to penetrate **deeply** and remove the root causes of the disease. This feature is available thanks to the two properties of the laser: **wavelength** and **power**.

As well known, the different wavelengths have different diffusion and absorption properties by biological tissues therefore it is possible to choose the most suitable wavelength for each therapeutic goal.

The emission power also amplifies the efficacy of the laser beam, by deeply conveying its beneficial effect. The greater power is transferred to biological tissues, the greater the energy conveyed to the tissue lesion.

Power is therefore the main vector of energy transfer.





Interaction between power and depth

The ability of the laser beam to penetrate deeply is erroneously attributed to the wavelength alone. But power also plays an essential role in the action of the therapeutic laser on tissues.

It is known that power (Watt) represents the amount of energy that can be transferred in a fraction of time. (1 Watt = 1 Joule per 1 second). However, the energy is diminished in an inversely proportional manner with respect to the reference depth.

Higher powers convey more energy by preventing the natural dispersion of the laser beam and reaching the "fulcrum" of the trauma (see diagram).

The more energy is transferred, the greater the quantity that can be assimilated by biological tissues.



WAVELENGTH:

EFFICIENCY AND SYNERGY

The ability of laser light to penetrate deeply is very important but not sufficient, in fact as the first law of photochemistry states "Light must be absorbed before photochemistry can occur", the ability of the laser light to interact and be absorbed by biological tissues is much more important.

All wavelengths within the therapeutic window (600nm - 1100nm) allow interacting with biological tissues by triggering photobiomodulation processes, but it has been shown that some of them are much more efficient. Science has proven that the

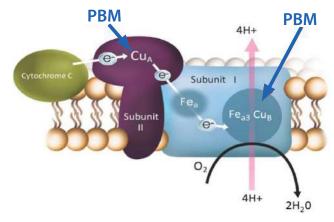
main cellular chromophore of photobiomodulation is *Cytochrome C Oxidase*; this is an enzyme found in mitochondria, cellular organelles present inside every cell of the human body.

Many recent scientific articles have shown how visible laser red light such as that at *650nm*, and laser light in the *800nm* - *850nm* range, are those most absorbed by Cytochrome C Oxidase, triggering photobiomodulation in the best possible way.

LASERTHERAPY









"Light must be absorbed before photochemistry can occour"

Among the wavelengths emitted by the major laser therapy devices there are also 980nm and 1064nm. These two wavelengths, even if less absorbed by Cytochrome C Oxidase, have other features that allow optimizing the therapeutic results triggered by photobiomodulation.

Both wavelengths, in particular 980nm, are absorbed by water and allow generating an excellent photothermal and photomechanical effect when the emission is based on pulse waves.

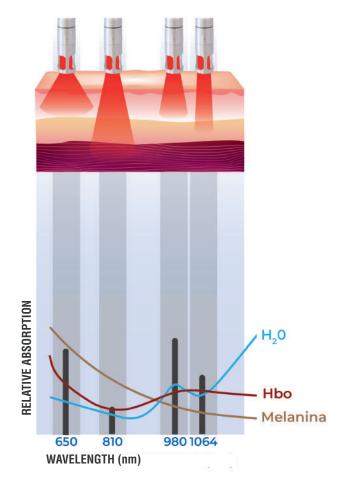
Moreover, thanks to greater penetration depth compared to 980nm and the lower scattering, the 1064nm wavelength has a more directional action and greater energy density with the same power.

The 980nm and 1064nm wavelengths allow optimizing the action on the thermoreceptors and mechanoreceptors and, if associated with the E²C mode they guarantee the right interaction with the peripheral nervous system, enabling the Gate Control mechanism for a quick analgesic effect.

Thanks to these features the two wavelengths allow triggering additional metabolic pathways that can act in some cases

simultaneously with those triggered by photobiomodulation.

iLux PLUS VET is available in different power and wavelength configurations from 650nm to 1064nm, with one or two wavelengths and with powers up to 30W to best meet the needs of the therapist and experts in the field and optimize the therapeutic effects.





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MHEL THERAPY

13 emissions in one laser

Therapeutic lasers are an important resource for veterinary and their effectiveness becomes an essential requirement when it comes to choosing between the various proposals on the market. We are aware that the therapist must be able to fully treat acute and chronic diseases, always guaranteeing the best possible result.

This is why Mectronic has implemented multiple emission modes in a single laser, increasing its effectiveness. Mectronic HEL polymodal laser therapy is renewed and developed to offer greater freedom and therapeutic efficiency, thus creating **MHEL Therapy** the result of 40 years of experience in the laser therapy sector, scientific research and technological innovation.

A cutting-edge therapy designed to offer the veterinarian all the tools for flexible and effective work.

A simple setting allows choosing between **13 emission modes**, each different in terms of benefits and characteristics of the laser pulse. This range of possibilities offers the certainty of treating patient's acute and chronic problems in the best possible way.



CONTINUOUS mode

E²C

ANTINF mode

CUSTOM mode

DIMMER

HPM

SINGLE PULSE

PULS 1, PULS 2, PULS 3 mode

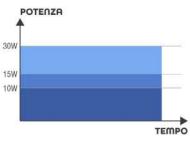
BURST mode

PBM mode

THP mode

CONTINUOUS EMISSION MODE

To enable the deep biostimulation processes

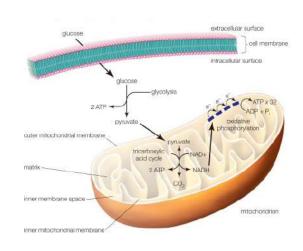


Among the multiple emission modes of iLux PLUS VET we find the CW mode with continuous wave emission. This type

of laser emission is able to trigger cell biostimulation processes increasing the ATP production.

Scientific studies on the effects of laser therapy have proved that a laser pulse must have duration of at least 100 ms to enable cell biostimulation. So only a continuous pulse (or pulsed that follows an emission of at least 100 ms) has the ability to generate an effect at the tissue level, thus contributing to the regeneration of cellular biological balance. The cell stimulated by the laser beam begins "recharging" itself with energy returning to its primary physiological function. The continuous emission mode is therefore fundamental to trigger a **tissue regeneration process**, accelerating recovery times.

The continuous emission mode is recommended for those diseases where the lesion is deep; the ability to activate cell reactivation processes allows for a rapid biostimulation effect from the first sessions.

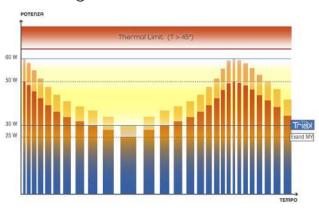


LASERTHERAPY

MHEL THERAPY

STOCHASTIC E²C MODE

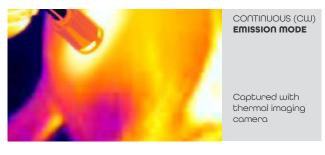
Naturally thermal mode emission

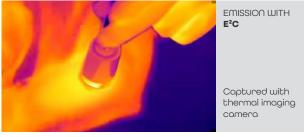


 $iLux\ PLUS\ VET$ features the E^2C laser emission system patented by Mectronic.

The stochastic E²C emission generates variable laser pulses in terms of power and duration; this particular way of delivering energy interacts in a correct manner with the peripheral nervous system.

The "naturally thermal" emission combined with the thermomechanical action on the peripheral receptors, allows rapid



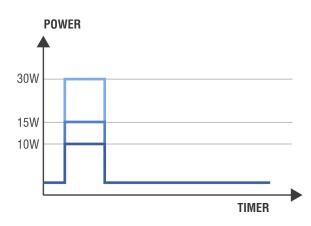


polarization of the nociceptive pathways, polarizing the A-delta fibers, and fighting against the pain coming from the noxa through the Gate Control.

The **analgesic action** results in a strong pain relief from the first applications without any side effects.

SINGLE PULSE

Accuracy and depth



The laser emission is concentrated in a single high-energy pulse whose dosage is accurate and effective.

In order to guarantee greater effectiveness, the amplitude of the single pulse can be adjusted by the operator to always offer a targeted action.

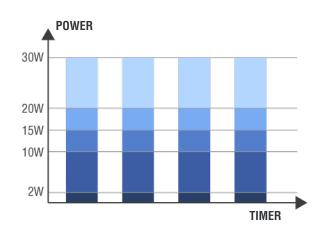


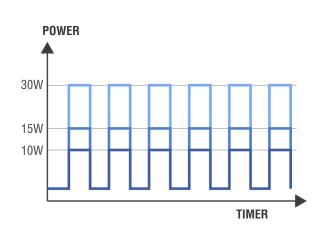
PULSED MODE

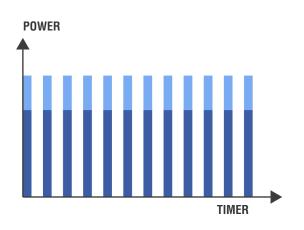
BURST MODE

ANTINE

Regular and modulated pulses







3 different modes to adjust therapy in the acute phase, optimizing the pro and anti-inflammatory action, while increasing biostimulation with less thermal impact. These modes allow optimizing the laser emission according to skin type.

This mode is particularly recommended for relapsing diseases with predominant chronic pain. The pulse trains allow rapid interarticular neoangiogenesis action and restoring cellular homeostasis.

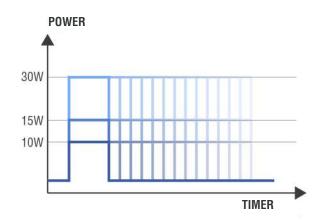
Pulsed mode with specific setting for anti-inflammatory action. The nitric oxide release process is fundamental for rebalancing the microcirculation. A controlled vasodilation allows the neoangiogenesis process to ensure the reactivation of the lymphatic peristalsis and the collection of the catabolites of the inflammatory cascade.

LASERTHERAPY

MHEL THERAPY

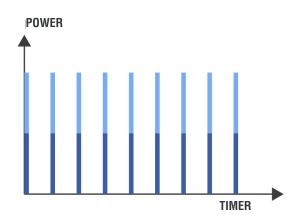
CUSTOM MODE

To design your own emission



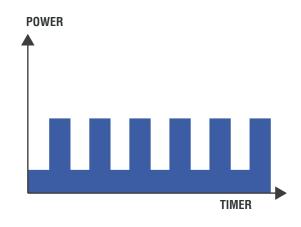
HPM MODE

The high intensity pulse mode



DIMMER MODE

Biostimulation and analgesic effect



The answer to requests for increasingly quantized and harmonized energy is represented by the Custom emission mode.

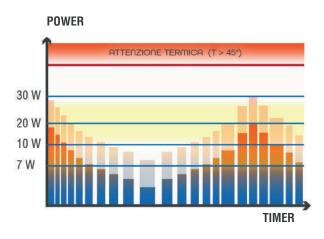
It is possible to customize the emission by means of the Duty Cycle and Frequency parameters, allowing you to "design" the pulsed and super-pulsed mode based on the characteristics of the therapy.

The high intensity mode (High intensity Pulse Mode) emits shortduration pulses distinguished by high peak power, while limiting the thermal effects on the tissues. The innovative Dimmer mode allows combining the biostimulation effect of the continuous mode with the analgesic effect of the pulsed mode in a single emission mode.

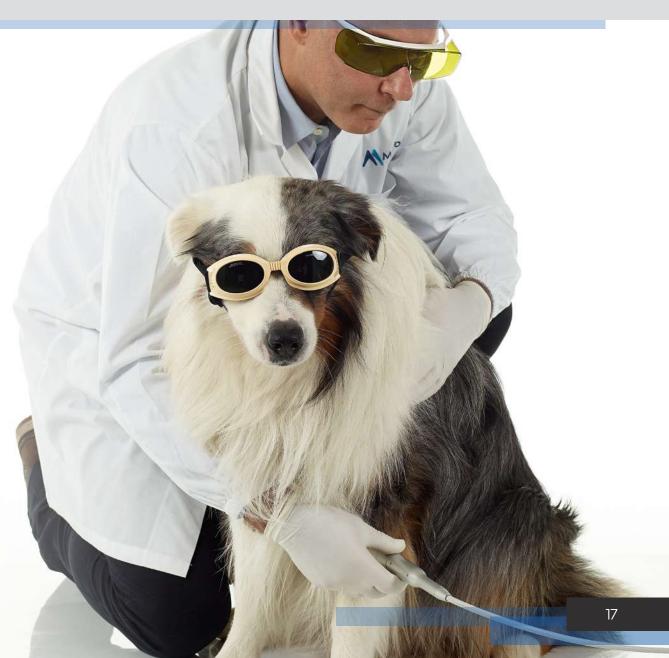


PBM MODE

Optimize photobiomodulation



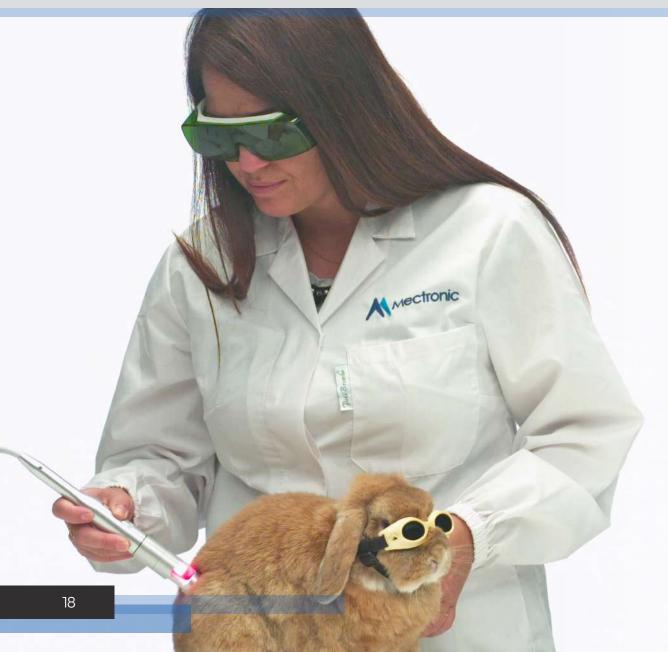
The innovative **PBM** mode is a stochastic emission mode designed to maximize photobiomodulation while respecting emission times and dark periods highlighted in many scientific researches.



LASERTHERAPY

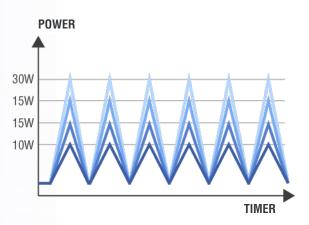
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MHEL THERAPY



THP

Pro and anti-inflammatory action



The **THP** (Triangular High Peak) mode is a pulsed mode characterized by a variable trend of the power delivered. The power rapidly increases and decreases in a triangular trend. This mode allows adjusting the therapy in the acute phase by optimizing the pro and anti-inflammatory action.



ANALGESIC EFFECT

A fast pain reduction without side effects: thanks to the innovative emission modes, **iLux PLUS VET** allows modulating the energy to quickly fight muscle and joint pain.

ANTI-INFLAMMATORY EFFECT

iLux PLUS VET modulates inflammatory processes thanks to the deep biological tissue stimulation, triggering vasodilation, increasing the supply of oxygen and thus enabling the main metabolic processes.

BIOSTIMULATION EFFECT

The **iLux PLUS VET laser** supports cellular energy processes, increasing tissue remodeling by stimulating the production of collagen.

ANTI-EDEMA EFFECT

iLux PLUS VET stimulates the neoangiogenesis process in the tissues. The production of new vessels has a balancing effect in post-trauma and hemolymphatic peristalsis by restoring microcirculation and the collection of excess fluids produced by inflammatory phenomena.



CONTRACTURE-RELIEVING EFFECT

iLux PLUS VET modulates the release of oxygen from oxygenated hemoglobin. The perfusion of oxygen in the contracted muscle tissues solves the topical problems of ischemia and hypoxia by favoring muscle fibers relaxation.

Mectronic Laser Cal Stop 20

TREATMENT

MANAGEMENT

MecOS 5.0 Software: therapy innovation



PATHOLOGY LIBRARY

The library includes over 90 pathologies with relative interactive protocols, subdivided by phase. The software also offers immediate graphical feedback, which shows power, time and effective energy supplied by the system.



A TARGETED SOLUTION

The need for correct dosimetry requires the control of the energy transferred to tissues. Compared to similar devices **iLux PLUS VET** guarantees greater therapeutic efficiency due to the software accuracy level.

Thanks to the new features of Mec Os 5.0 Real-Time software, it is possible to enter the precise size of the area to be treated, ensuring the correct therapeutic dose. Therefore Mectronic provides a useful tool to facilitate the data entry in the treatment area.

TIME/JOULE **MODE**

iLux PLUS VET can set the emission according to the time and energy parameters. The operator can indicate the therapy time and **iLux PLUS VET** will stop delivering the energy when the set therapy time is reached.

Joule mode allows the operator to set the energy dose of the therapy; delivery will end when the set value is reached.



TREATMENT GUIDE

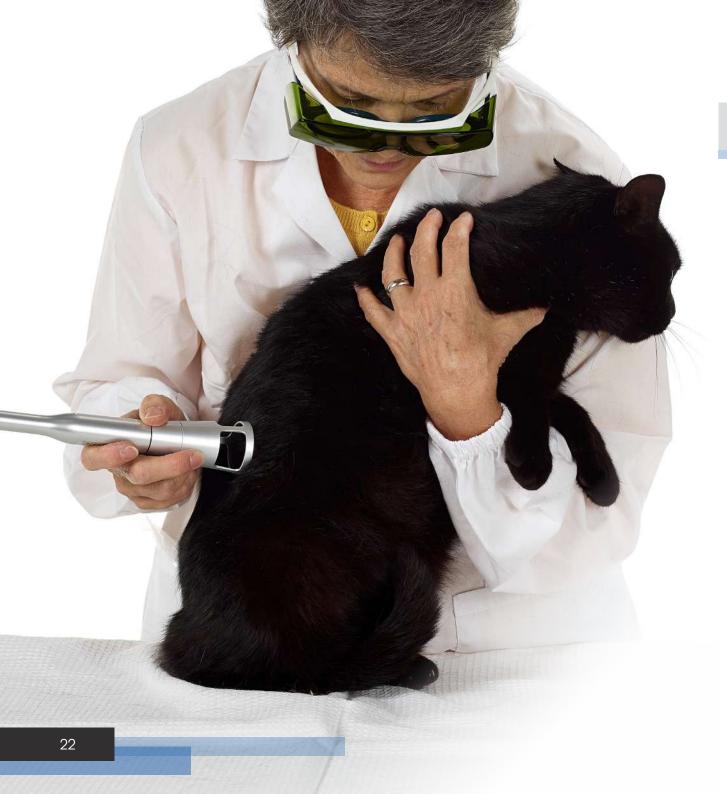
The pathology library includes a protocol dedicated to each of the pathologies, both acute and chronic.

The images clearly show how to treat the patient.

TRIGGER POINT **MODE**

This mode allows treating the Trigger Points: you set the dose in Joules for each point and an acoustic signal alerts the operator when the set dose is reached, thus allowing you to switch to the treatment of another Trigger Point.





THE FUTURE IS IN YOUR HANDS

Therapy control has never been easier

The enabling and control of the therapy are strictly connected to the handpiece and applicators.

This is why Mectronic has redesigned the ergonomics and functionality of the handpiece for an easier and more efficient therapy.

The innovative ultra-compact and ergonomic Light Blade handpiece is created.



Light Blade allows the operator to enable the laser emission directly from the handpiece by pressing the new and practical **finger switch**.



SENSOR

TO CHECK THE PRESENCE OF THE APPLICATOR

FINGER SWITCH

TO CONTROL THE LASER EMISSION DIRECTLY FROM THE HANDPIECE

MAGNETIC ATTACHMENT

TO EASILY CHANGE THE APPLICATOR



APPLICATORS

An applicator for each treatment

Ligth Blade features a vast set of patented applicators in order to meet every therapeutic need.



INCLUDED

Plus small applicator



Plus large applicator



Plus small spherical applicator



Plus Fixed focus applicator





Plus variable focus applicator



Plus ENT applicator

PRECISION AND CONTROL: THE BASIS OF A

CORRECT THERAPY



Mectronic has equipped its devices with a **calibration** system to always check the actual laser emission; the calibration is accurate, as it is carried out directly at the exit of the handpiece (according to IEC EN 60601-2-22).

Those who choose **iLux PLUS VET** know that the correct therapy is

also the result of the awareness of the device used: precision and control must not be a compromise.

Another safety system of iLux PLUS VET is the temperature control on the laser head, to always check its correct operation.







Practical and functional accessories

iLux PLUS VET features practical patented magnetic attachment spacers: they are applied with a simple gesture, as does the ScanX conical applicator.



MODELS		
MODEL	WAVELENGTH	POWER
iLux Plus VET RED	650nm	2W
iLux Plus VET 1064	1064nm	10W - 15W - 20W - 30W
iLux Plus VET 810+980	810nm + 980nm	10W - 15W - 20W - 30W
iLux Plus VET 810+1064	810nm + 1064nm	10W - 15W - 20W - 30W



iLux Plus VET **RED**

iLux Plus VET 1064

iLux Plus VET **810+980**

iLux Plus VET **810+1064**

TECHNICAL SPECIFICATIONS

SOFTWARE	Mectronic's own MecOS 5.0 Re- al-Time Operating System	
WAVELENGTH	650 nm, 1064 nm, 810 nm + 980 nm and 810 nm + 1064 nm	
GUIDE LIGHT	650 nm - up to 3 mW	
LASER POWER	Up to 30 W	
ISSUE	13 emission modes: - Continuous (CW) - Pulsed (PULS 1, PULS 2, PULS 3) - Burst - E ² C (patented stochastic mode) - Antinf - Custom - HPM - Single pulse - Dimmer - PBM - THP	
WORK MODE	- Manual - Single Pulse - Burst - Custom mode	
SPECIAL MODES	- Joule - Timer - Trigger Point	
EFFECT MODES	Protocols to maximize the main effects: - Biostimulant - Anti-inflammatory - Contracture-relieving - Anti-edema - Analgesic	
SCANX AUTOMATIC MODE	ScanX automatic mode (Optional)	
PROTOCOLS	Over 150 preset protocolsAbility to create customized protocols	
DISPLAY	10.1" HD IPS color display with capacitive touch screen	
CALIBRATION	Display and acoustic control system for laser emission at handpiece exit according to IEC EN 60825-1	
POWER SUPPLY	100÷240V 50÷60Hz	

ABSORPTION	160 VA
DIMENSIONS	- CASE: 295 x 265 x 150 mm - WITH TROLLEY: 516 x 516 x 1017 mm
WEIGHT	- CASE: 5 Kg - WITH TROLLEY: 24 Kg
LASER CLASS	IV
BEAM DIVERGENCE	25°
PULSE WIDTH	1-1000 ms
IP CLASSIFICATION	Device: IPX0 Handpiece: IPX0 Pneumatic footswitch: IPX4
OPERATING CONDITIONS	10°C ÷ 30°C 30 ÷ 75% non-condensing humidity 700 ÷ 1060 hPa
TRANSPORT AND STORAGE CONDITIONS STORAGE	-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 $9 \text{W}/\text{m}^2$
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

OPTIONAL ACCESSORIES



Cod. 20AP.HPS.ZOOM **PLUS variable-focus**



Cod. 20AP.HPS.SPH.P **PLUS Small spherical** applicator



Cod. 20AP.HPS.ENT PLUS ENT applicator



Cod. 20AP.HPS.FXFCS PLUS fixed focus applicator



Cod. 30OC.LS+C

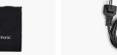
Special safety goggles 659 for red laser light



Cod. 30BO.F-MM **NYL flex protective bag** for device transport



Cod. 30BO.R-MM Rigid protective bag For device transport





Cod. 50WI.AL2MT.SCH



Cod. 30WI.AL90.SCH

Power cord with Schuko plug



SCANX OPTIONAL ACCESSORIES



Cod. 20AP.HPS.ENT



Cod. 20AP.HPS.C120



Cod. 30BR.SCANX.XP



Cod. 20SW.SCNX.PL

PLUS VET



ScanX large conical applicator for PLUS hanpiece, Ø 70 mm for PLUS hanpiece, Ø 120 mm

ScanX arm with magnetic coupling conical holder



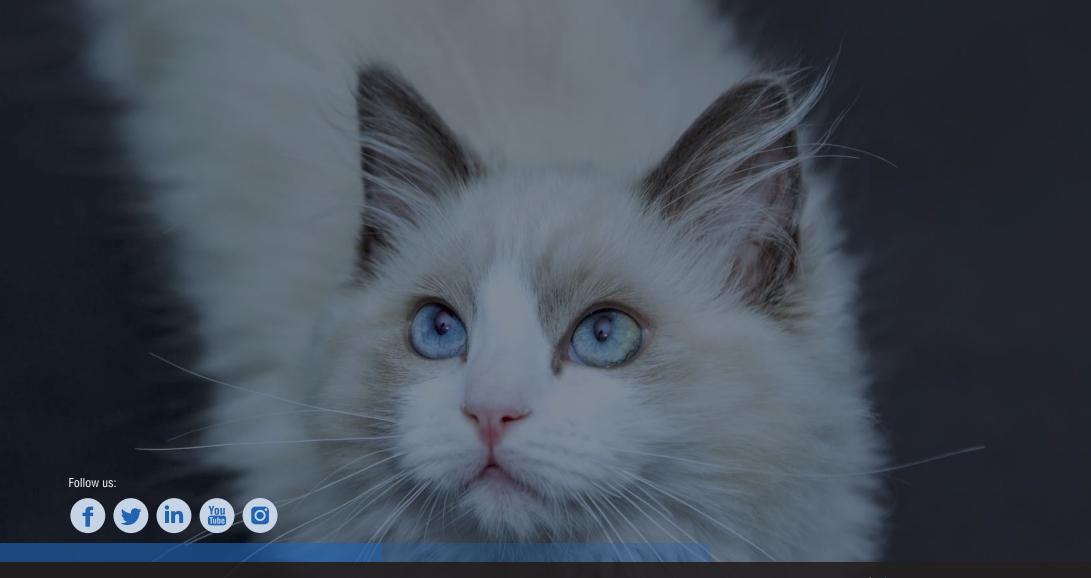
ScanX automatic mode

software update for iLux





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