



TAILORED EXPERTISE
for good horse-care

Theal
THERAPY

**SHAPING A RADIANT FUTURE
FOR EQUINE COMPANIONS
THROUGH INNOVATION
AND LEGACY**

In 2022, Mectronic Medica's
40 years of laser expertise gave birth
to Mectronic Centaurus - an important step
into equine well-being. Fusing legacy and
innovation, this dynamic brand reimagines equine
health with pioneering laser mastery.

**Pioneering Med
Since**

albo

 **Mec**

Medical Innovation
since 1982

Out

tronic

33k+

Devices
Sold

100%

Made in
Italy

4000+

Treated
horses

3

Peer
Reviewed
Research

19k+

Publications
underpinning
the therapeutic
methodic

7

Patents



TEMPERATURE
CONTROLLED



HIGH



ENERGY



ADJUSTABLE
MULTI-MODE
EMISSION



LASER

WHAT IS THEAL THERAPY?

THEAL Therapy is a unique, targeted and personalized therapeutic method that expands the application possibilities of phototherapy while safely maximizing the therapeutic efficacy.

01 *Unique
Personalized
Safe*

The meeting point between low-level laser therapy and high-intensity laser therapy



THE IDEAL PAIRING

THEAL Therapy not only delivers laser light at different intensities, but expands its potential and effectiveness by allowing the operator to use the device with emissions from very low energy levels (LLLT: Low Level Laser Therapy) to high intensities. Thanks to the flexibility of work, the operator can treat a large number of pathologies in their different stages using different application modalities

A PERFECT MATCH

THEAL Therapy makes it possible to optimize the therapeutic results, allowing the rapid recovery of many diseases of the horse in both acute and chronic phases, thanks to the real-time control of tissue's temperature and the possibility to deliver a wide range of different combinations of powers and emission modalities for each wavelength.

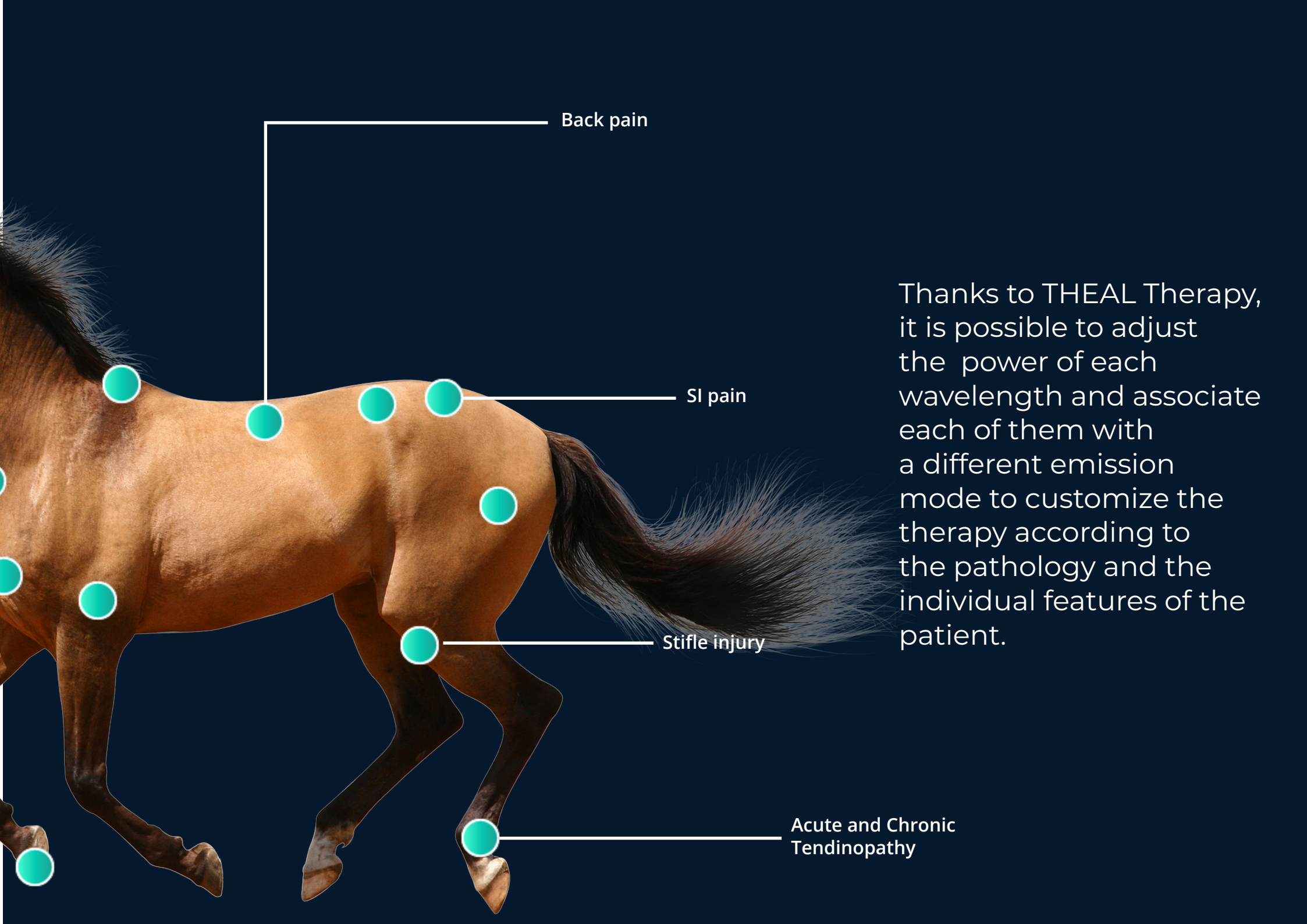
UNLEASHE THE INNATE POWER OF SELF-HEALING

THEAL Therapy's light energy allows to interact with biological tissues by triggering the metabolic reactions necessary to accelerate the process of natural healing.

*Revives
Self-Healing*

02





Back pain

SI pain

Stifle injury

Acute and Chronic
Tendinopathy

Thanks to THEAL Therapy, it is possible to adjust the power of each wavelength and associate each of them with a different emission mode to customize the therapy according to the pathology and the individual features of the patient.



THEAL Therapy Targeted Effects

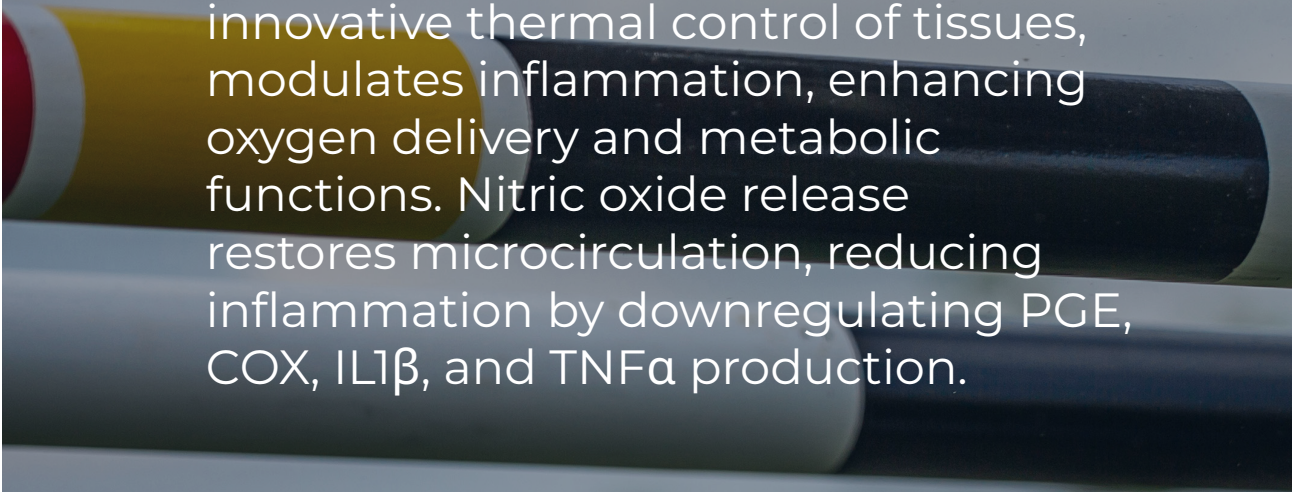


BIOSTIMULANT EFFECT

Theal Therapy, with customizable wavelengths, stimulates fibroblast proliferation, promoting collagen production, tissue remodeling, bone regeneration, and faster healing.

ANTI-INFLAMMATORY EFFECT

THEAL Therapy, thanks to the innovative thermal control of tissues, modulates inflammation, enhancing oxygen delivery and metabolic functions. Nitric oxide release restores microcirculation, reducing inflammation by downregulating PGE, COX, IL1 β , and TNF α production.





ANTI-EDEMA EFFECT

THEAL Therapy stimulates tissue neoangiogenesis, reducing inflammation and aiding in the treatment of conditions such as edemas. It enhances immune cell production, reducing edema and improving lymphatic drainage and microcirculation.

DECONTRACTING EFFECT

THEAL Therapy, utilizing customizable wavelengths and Spheric XP applicators, modulates oxygen release from hemoglobin, addressing muscle ischemia and hypoxia by promoting fiber relaxation through improved oxygen perfusion.

ANTALGIC EFFECT

THEAL Therapy offers rapid pain relief without side effects. Using the innovative E²C emission modality, it optimizes energy interaction with the peripheral nervous system to fight muscular, joint, and neuropathic pain.

Theal THERAPY

Tri-Therapy Marvel

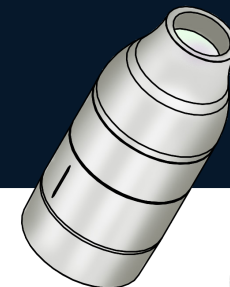
EXTRACORPOREAL
laser therapy



INTRACAVITARY
laser therapy



CLASS IIIB
laser therapy



4 Extracorporeal Mode

SAFETY BEYOND EXPECTATIONS

The Cutting-Edge Advancement of THEAL Therapy: harness the full spectrum of healing potential through our **Vobulated Thermal Control** Innovation. Experience remarkable results with utmost patient Safety at the forefront.

A GAME-CHANGER

THEAL Therapy seamlessly tailors itself to the unique physical and pathological attributes of every patient, transcending standardized rehabilitative approaches to offer an **unparalleled level of customization flexibility.**



INTRACAVITARY MODE FOR STUNNING OUTCOMES.

Utilizing the **INTRA** module, THEAL Therapy precisely addresses deep injuries, expediting recovery timelines, broadening **therapeutic horizons**, and **minimizing the risk of relapses**.



*Intra
Mode*

05

y

ronic tendinopathy

nt

rg joint

ion

06

III B

Mode

Thanks to the 3B mode, THEAL Therapy allows 3B class laser treatments in accordance with FEI regulations.



**After 4,7- 6,1
months**

**Back at previous
performance level**

18%

**Re-injury after
24 months**

**Research
Insights**

*** The gold standard for the treatment of tendon pathologies**

Short- and long term follow-up of 150 sports horses diagnosed with tendinopathy or desmopathy by ultrasonographic examination and treated with high-power laser therapy.

M. Pluim, A. Martens, K. Vanderperren, S. Sarrazin, M. Koene, A. Luciani, P.R. van Weeren, C. Delesalle

Ixyon XP and THEAL Therapy are game-changers: easily the most effective and versatile system I have come across, backed by decades of expertise and research.

Dr. Marc Koene, Teamvet German Dressage DOKR,
Tierklinik Lüsche GmbH



Laser therapy changed our rehabilitation programs for equine orthopedic diseases over the last decade. MHEL therapy is part of these programs.

Dr. Niklas Drumm, ACVS - LA, ECVS, Tierklinik Lüsche GmbH



Technical specifications



IXY
THEA

Ixyon XP 22W

2W 650 nm + 10W 810 nm + 10W 905 nm



INTRA



3B

Ixyon XP 32W

2W 650 nm + 10W 780 nm + 10W 810 nm + 10W 905 nm



INTRA



3B

Ixyon XP 35W

Coming Soon

3W 450 nm + 2W 650 nm + 10W 780 nm + 10 W 810 nm + 10W 905 nm



INTRA



3B

Ixyon XP 42W

2W 650 nm + 10W 780 nm + 10W 810 nm + 10W 905 nm + 10W 980 nm



INTRA



3B

Ixyon XP 45W

Coming Soon

3W 450 nm + 2W 650 nm + 10W 780 nm + 10W 810 nm + 10W 905 nm + 10W 980 nm



INTRA



3B



ION XP

AL Therapy

as a device

DEVICE	Ixyon XP Centaurus				
	Ixyon XP 22 W	Ixyon XP 32 W	Ixyon XP 35 W	Ixyon XP 42 W	Ixyon XP 45 W
WAVELENGTHS	650 nm 810 nm 905 nm	650 nm 780 nm 810 nm 905 nm	450 nm 650 nm 780 nm 810 nm 905 nm	650 nm 780 nm 810 nm 905 nm 980 nm	450 nm 650 nm 780 nm 810 nm 905nm 980 nm
SOFTWARE	Operating System Real-Time owner MecOS 5.0				
GUIDE LIGHT	650 nm - up to 3mW				
EMISSION	- Continue (CW) - Burst - Antinf - Sinusoidale	- Pulsed (puls 1, puls 2, puls 3) - Single Impulse - HPM - Trapezoidale	- E ² C (Patented stochastic mode) - Custom up to 1kHz - Dimmer - PBM	- THP	
WORKING MODES	- Time - Joule - Joule/cm2	- Manual - Trigger Point			
THERMAL CONTROL	- Feedback - Vobulated	- Stop - Warning			
INTRA MODE	Intracavitary mode (optional)				
PROTOCOLS	- More than 100 predefined protocols - Possibility to create custom protocols				
CALIBRATION	Graphic and acoustic laser emission control system on exit from the handpiece, according to IEC 60601-2-22				
DISPLAY	Display 10.1" HD IPS color with capacitive touch screen				
POWER SUPPLY	100÷240V 50÷60Hz				
ABSORPTION	160 VA				
DIMENSIONS	- Without trolley: 300 x 450 x 250 mm - With trolley: 300 x 450 x 1070 mm				
WEIGHT	- Without trolley: 7 kg - With trolley: 22 kg				
LASER CLASS	IV + IIIB module				
BEAM DIVERGENCE	25°				
IP CLASSIFICATION	device: IPX0 handpiece: IPX0 pneumatic foot switch: IPX4				
OPERATING CONDITIONS	0°C ÷ 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				
EMP	- Maximum emission allowed on the skin 5600W/m ² - Maximum emission allowed on the cornea 9W/m ²				
DNRO	Nominal Eye Risk Distance 13,5m				
CONFORMITY	EN 60601-1; EN 60601-1-2; EN 60601-2-22				
CERTIFICATION	Compliance CE				
DIRECTIVE 93/42	IIb Classification				
WARRANTY	2 years				







Mectronic
CENTAURUS

Find us on



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