

Meet the world's first therapeutic laser with artificial intelligence



PATENTED



Vetman

KLASER[®]
SPECIALE **VET**

LIVE[®]
THERAPY

WE ARE
K.LASER®

**THE WORLD'S FIRST CLASS 4
AVERAGE POWER
THERAPEUTIC LASER,
6 DYNAMIC WAVELENGTHS,
INTELLIGENT HANDPIECE
EQUIPPED WITH 8 ACTIVE
SENSORS AND DESIGNED
IN ITALY**

**100W
80W CW**

K-LASER IN THE WORLD

Eltech K-Laser designs, manufactures and markets equipment and professional lasers for the medical and surgical sector all over the world. **All products are designed and Made in Italy.** Every day, the company's qualified staff cooperates with first class professionals and renowned private hospitals, investing in Research and Development in order to deliver the most cutting-edge products on the global markets: the K-Laser Device series.



**K.LASER®
SPECIALE**

K-LASER[®]
SPECIAL E

**THE WORLD'S
FIRST THERAPEUTIC
LASER CAPABLE
OF MEASURING
DEPTH OF PENETRATION
FOR WAVELENGTHS
& TISSUE**

**K-LASER SPECIALE SETS NEW STANDARDS
IN THE FIELD OF LASER THERAPY**

A sophisticated effect-driven system managed by artificial intelligence through 8 sensors modulates every wavelength in real time, continuously and independently in all its parameters for Irradiance, Energy, and Modulation. The revolutionary APM (Active Photonic Modulation) system also helps to maximize the transfer of the correct dose of Energy during each treatment.

This technology takes the laser therapy into the future, making treatments both more efficient and safer.

K-Laser SPECIALE is designed to simplify the practitioner's work and, at the same time, improving the efficiency of the therapy.



**THE ONLY
THERAPEUTIC LASER
WITH AN INTELLIGENT HANDPIECE
WITH 8 ACTIVE SENSORS
AND ACTIVE PHOTONICS
MODULATION - APM**

Active handpiece: our new handpiece is now equipped with sensors that enhance safety and treatment efficiency. **New handpiece** distal with active photonics modulations – **APM:** our new distal handpiece recovers the light energy which would normally be lost by reflexion. It also ensures that the handpiece maintain a cool temperature. Our new distal piece is easy to clean, sterilise, and it self-lubricates.



**THE MOST TECHNOLOGICALLY
ADVANCED THERAPEUTIC LASER**

Automatic skin spectrometry:

The first therapeutic laser capable of measuring the penetration profile for each wavelength, detecting the depth of penetration and type of tissue.

The K-Laser Speciale detects the patient's phototype, making the laser therapy truly personalized and safer.

K.LASER[®]



DESIGNED TO SIMPLIFY THE WORK OF THE PRACTITIONER AND EASE PATIENTS' PAIN

100W
80W CW

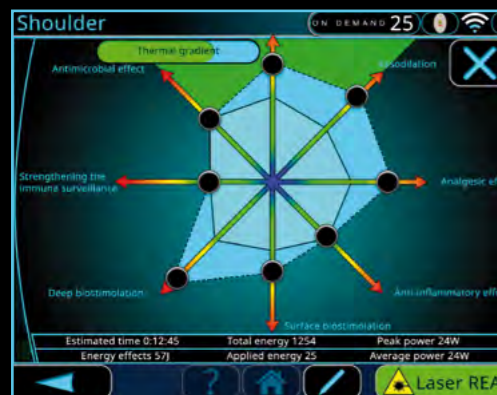
K-LASER[®]
SPECIALE



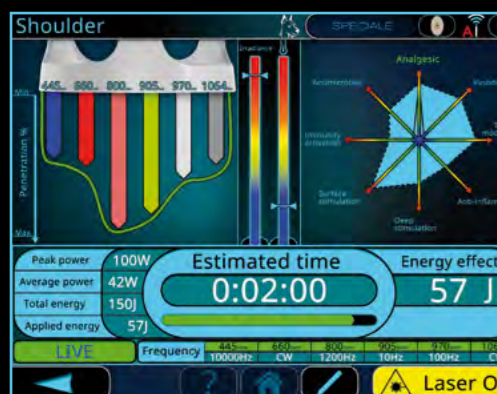
K-Laser Speciale drives the practitioner to simplified therapy customization based on: body morphology, targeting tissue, and level of pain and chronicity.



In just two seconds, it measures the penetration profile of the 6 wavelengths by detecting the specific phototype of the patient.



K-Laser Speciale works through 8 Dynamic Effects modulable in real-time. Each of them defines representative aspects of an altered pathological condition. Those shall be represented by analgesia, vasodilation, thermal modulation, anti-inflammatory effect, deep/surface stimulation, immune system activation, anti-microbial effect.



The device is ready to use within the shortest possible time by generating up to 25 billion different settings.



The benefits of a therapeutic laser now with artificial intelligence

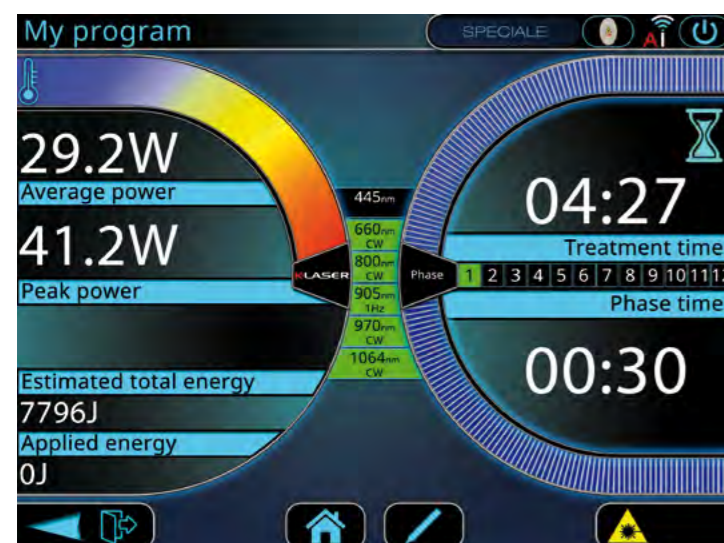
K-LASER SPECIALE: A FAST, INTUITIVE AND VERSATILE THERAPEUTIC APPROACH

In addition to LIVE technology, K-Laser SPECIALE has developed a Manual Area section. This section allows the practitioner to create a customized therapeutic program. In detail, this allows the selection of the suitable wavelengths and their modulation by adjusting the advanced setting in terms of Irradiance (Average Power), Energy, and the number of total treatment phases (consisting of a maximum of 12). Each wavelength will then work independently.

K-Laser SPECIALE works by delivering a TOTAL maximum Average Power of 62 watts. In this mode, the artificial intelligence is deactivated, and only the safety sensors are active.

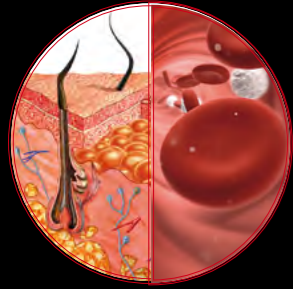
K-LASER[®]
SPECIALE

K-LASER SPECIALE SETS THE NEW STANDARD IN THE FIELD OF LASER THERAPY



6 WAVELENGTHS

K.LASER®



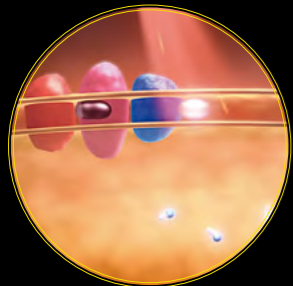
< 445 nm

445 nm is the wavelength that best interacts with molecules at the systemic level, absorbed by both melanin and hemoglobin more effectively than infrared wavelengths do. This wavelength is also particularly effective on numerous bacterial strains (*Staphylococcus aureus* (MRSA), *Pseudomonas aeruginosa*, *Phrphyromonas gingivalis*, *Helicobacter pylori*), exercising its antiseptic and bactericidal action, excellent results in tissue incisions, both for surgical and vascular purposes. Moreover is particularly suitable as a tissue injury detector. Last but not least, it acts by stimulating the immune system activation.



< 660 nm

This wavelength is perfectly absorbed by the melanin contained in the skin, thus guaranteeing energy concentration in the most superficial tissue layers. Laser therapy allows obtaining excellent results in wounds healing as the light both inhibits bacterial proliferation and increases cellular growth.



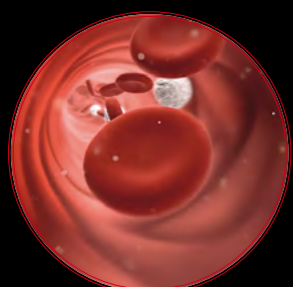
< 800 nm

Cytochrome C oxidase is the terminal enzyme of the respiratory chain that determines the amount of oxygen to be turned into ATP according to cellular efficiency. Enzymes are better absorbed at 800 nm: an ATP molecule is generated for each oxygen-reduction cycle accomplished. The photon absorption accelerates such process while increasing the ATP cellular production.



< 905 nm

Oxygen is released in variable percentages in the blood: the faster it is released, the more oxygen needs to be transported to the cell in order for the natural healing processes to take place. This wavelength is absorbed by haemoglobin, water, melanin and Cytochrome C oxidase. When it is absorbed, more oxygen is available to the cells.



< 970 nm

Blood, the main transport system, provides the cells with all the elements which are necessary to their metabolism, such as oxygen and nutritional substances, thus removing catabolic products. This wavelength is able to absorb most of the water contained in our body and a large part of the energy delivered by the therapy is transformed into heat. The deep tissue layers are thus transformed into localised heat points that create temperature gradients at cellular level. They also boost local microcirculation thanks to the increase

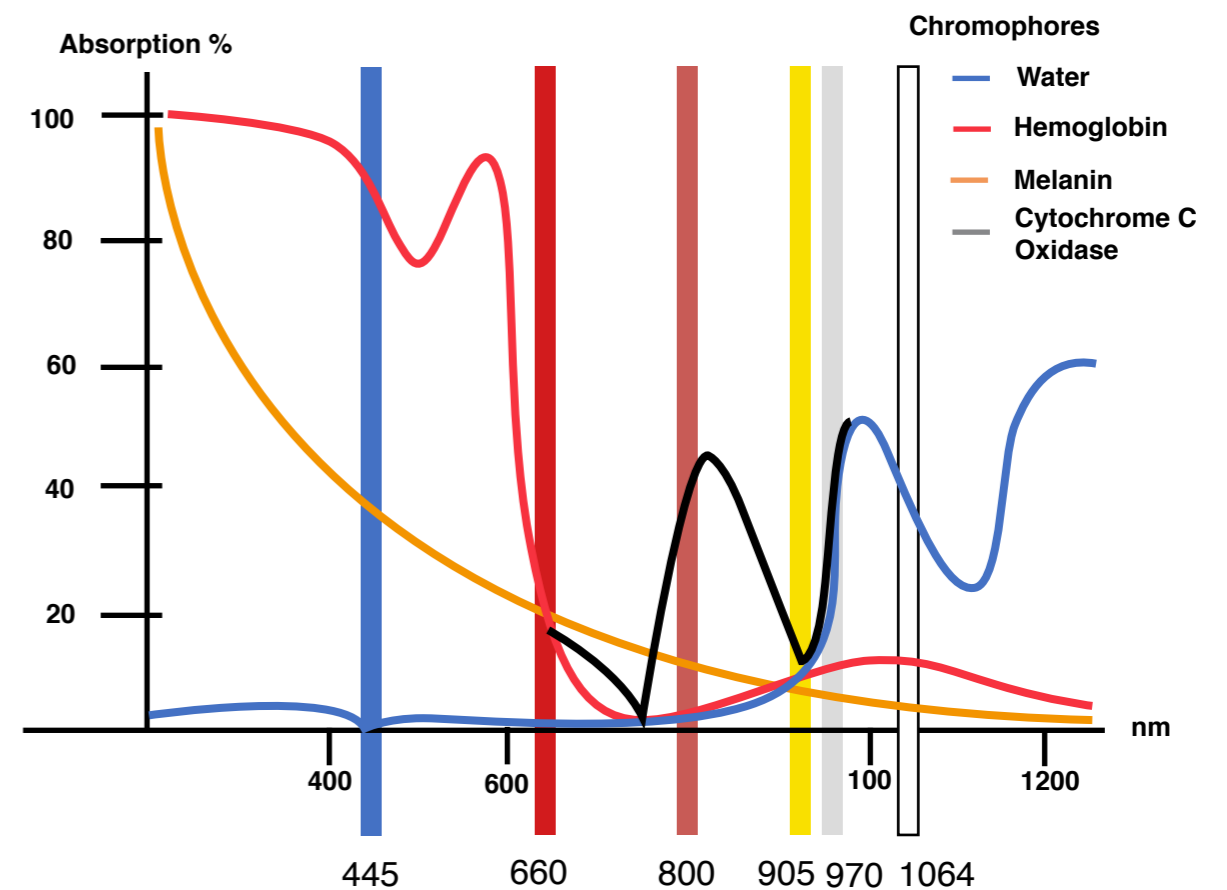


< 1064 nm

This wavelength generates a double effect, since at the same time it is absorbed by two primary chromophores: Melanin and Water. The combination of the two activation peaks enhances the advantage of using this wavelength. Being more penetrating than Melanin, 1064nm wavelength is optimal when we need to treat dark phototypes, in which the short wavelengths would not be sufficiently penetrating because absorbed too early by the skin.

WAVELENGTH AND THERAPEUTIC WINDOW

The chromophores condition the therapeutic use of the Laser, defining the useful window in physical therapy. The therapeutic Window describes the optimal compromise between sufficient Penetration and sufficient Absorption.



K.LASER®
SPECIALE

LIVE®
THERAPY



- 100 WATT ISP
- 80 WATT CW
- **NEW** SMART HANDPIECE
- **NEW** THICKER AND EVEN MORE RESISTANT FIBER
- **NEW** ACTIVE DISTAL HANDPIECE: ACTIVE PHOTONICS MODULATION - **APM**
- **NEW** TECHNOLOGY ARTIFICIAL INTELLIGENCE BY EFFECTS
- **NEW** 8 ACTIVE SENSOR
- **6 WAVELENGTHS** FOR A COMPLETE AND INTEGRATED SPECTRUM
- 4,5 KG
- DIMENSIONS:
310 X 300 X 260 mm.



ACCESSORIES

SMART FIBER LIVE THERAPY
Included



SMART OPTICAL LIVE THERAPY
Included



DISTAL AMP
Included



ENT HANDPIECE
Included
ENT FIBER
optional



K-LASER[®]
S P E C I A L E

LIVE[®]
THERAPY

PROTECTIVE GOGGLES

Included

K-Laser studied some specific goggles to protect the operator and your patients eyes during **K-Laser** treatments.



K-LASER TROLLEY

optional

Light, transportable and safe, it guarantees the stability of the device on the base of the trolley.

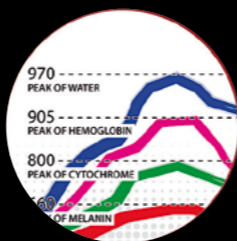


SAFETY PACKAGING
Included

More than 80% of your patients can benefit from K-Laser therapy.

80%

Increased efficacy delivering better results and stronger compliance.



Shortest treatment time for faster return on investment.



Full customer support (Marketing, Training and Education).



Record-time effectiveness and versatility

01

02

Improved clinical outcomes

Fast, painless and non-invasive treatment

03

04

Wide application range

Alternative solution to drugs

05

06

Long lasting clinical results

High patient compliance

07

08

Improved patient safety

New revenue generation opportunities

09

10

World-wide record in safety, compactness, reliability and power

Meet the world's first therapeutic laser with artificial intelligence



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