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revitalizing lives

Aesthetics

K-LASER®

Blue Derma

Embrace Every Possibility

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First Blue Laser in the World for Both Surgery and Therapy

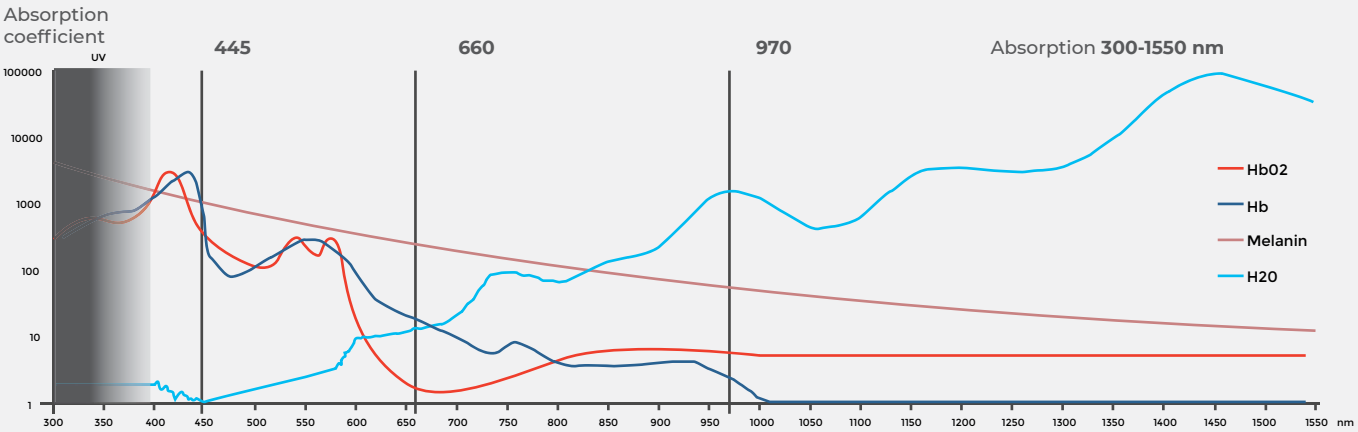
First blue laser in the world with 3 wavelengths for surgery and therapy

K-Laser Blue Derma is a three-wavelength device that mainly exploits the 445 nm one. Unlike all other infrared lasers, K-Laser is not based on water absorption but rather on the absorption of melanin and hemoglobin. This feature allows obtaining many advantages in the surgical field. Thanks to its higher energy coefficient, compared to infrared laser, it has increased antiseptic and biostimulating properties.

The 445 nm wavelength is combined with 660 nm and 970 nm ones since they support superficial and deep tissue biostimulation.

Advantages: no maintenance, low cost of consumption material and maximum safety. All surgical components can be sterilised.

K-Laser Blue Derma:
445 nm - 660 nm - 970 nm



445 nm

The 445 nm wavelength interacts with the molecules at systemic level and is absorbed by both hemoglobin and melanin much better than with an infrared laser. The blue wavelength is also effective on numerous bacterial strains, thus exploiting its antiseptic properties and achieving excellent results in tissues incision, both for surgical and vascular purposes. It is also useful in treating diabetic ulcers and bedsores.

660 nm

The 660 nm wavelength can transfer an optimal dosage of energy to the tissue. This energy is thus stored at cellular level with subsequent increase in both cell proliferation and metabolism. Therefore, it allows obtaining remarkable results in the healing of wound, diabetic and vascular ulcers.

970 nm

The 970 nm wavelength is absorbed by the water contained in our body: most of such energy is turned into heat. The deep layers of tissues thus become localised heat points able to generate temperature gradients at cellular level and to stimulate the local microcirculation thanks to the oxygen supply provided by this wavelength.

Effective in Both Surgery and Therapy

In the therapeutic filed, **K-Laser Blue Derma** uses several pulse frequencies through dynamic stages in order to produce a combination of: analgesia, reduction in inflammation, immunomodulation, biostimulation and antisepsis.

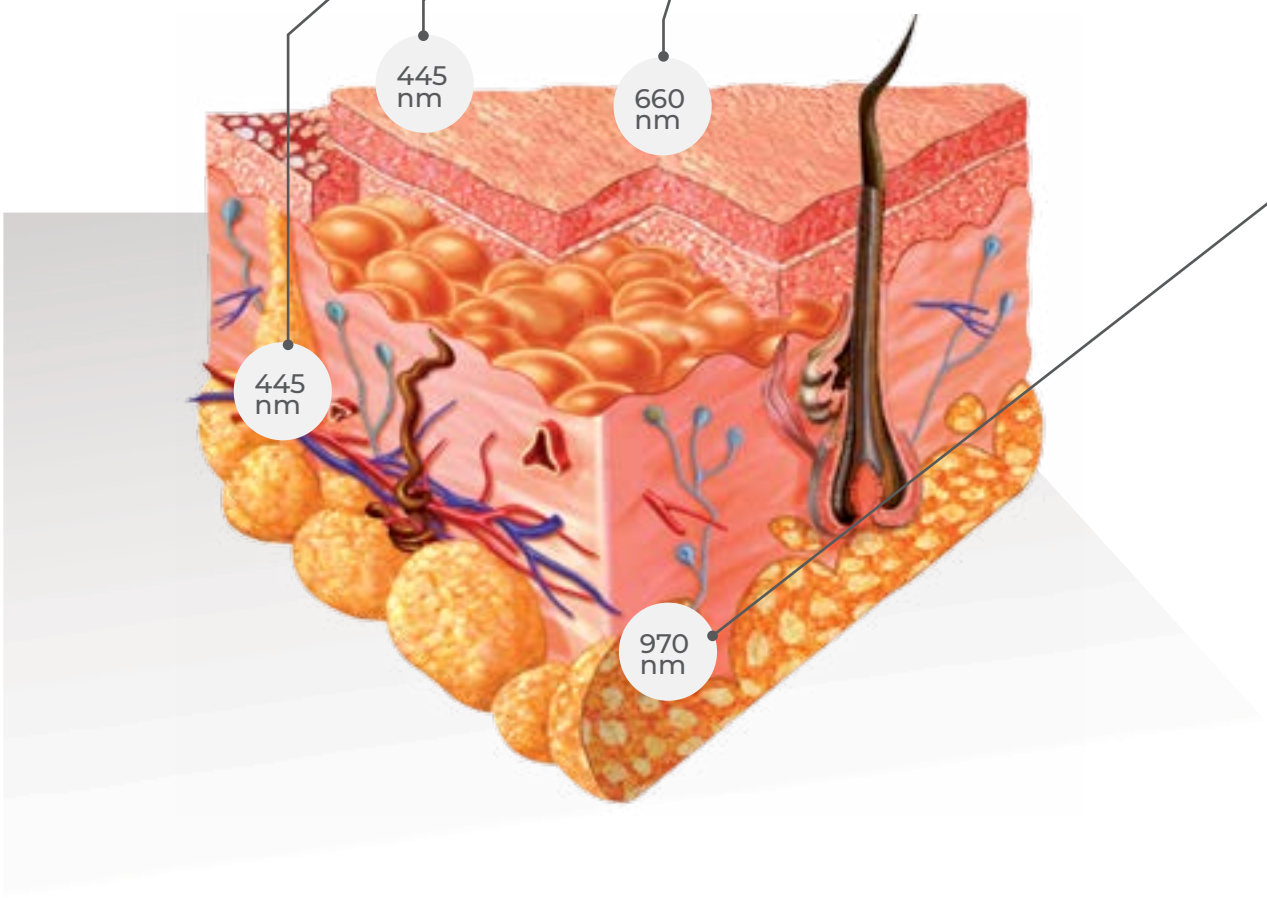
In surgery, the three wavelengths can be combined, thus increasing the effectiveness of surgical incisions as well as hemostatic, biostimulating and antiseptic effects.

- → Vascular surgery
- → Hemostasis

- → Dermatological surgery
- → Melanic spots
- → Photorejuvenation
- → Superficial biostimulation
- → Wound healing
- → Ulcers / Diabetic foot bedsores

- → Biostimulation
- → Wound healing ulcers / Diabetic foot bedsores

- → Pain management therapy
- → Inflammation reduction
- → Deep biostimulation
- → Increase in the metabolic and vascular activity
- → Reinforced immune system
- → Cellular oxygen



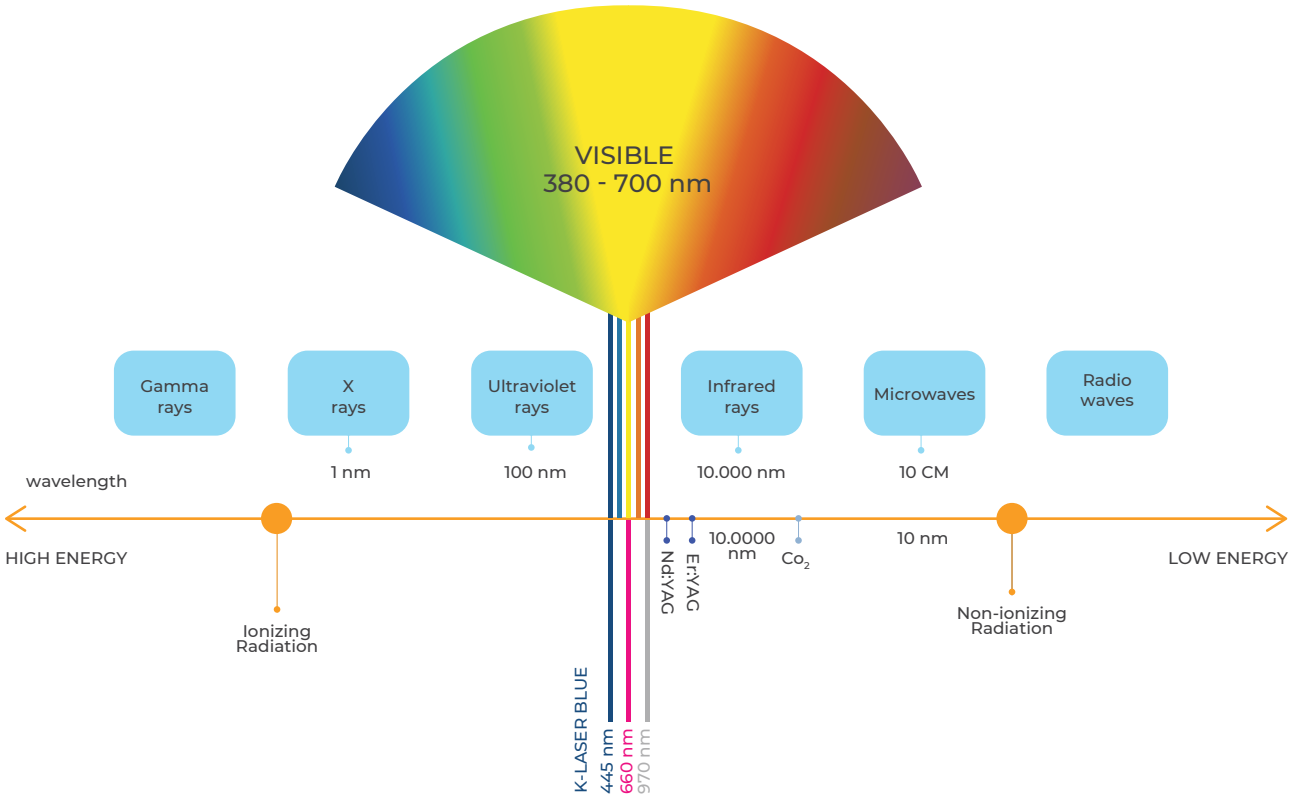
Advanced Technology

K-Laser Blue Derma intuitive software is quick and accurate and easily guides the physician in all the treatments available.

The parameters that determine each stage of the treatment, such as wavelength, energy, time, power and frequency, are automatically managed in an accurate and meticulous way, despite leaving the operator free to easily create new personalised protocols.

New Source of Energy

Within the electromagnetic spectrum and among the non-ionising radiations, the blue wavelength is the most powerful in terms of energy: this translates into several benefits for the treated tissues.



The Electromagnetic Spectrum

Fields of Application: Surgery

K-Laser Blue Derma is characterised by an interface that allows choosing from several treatments, ensuring unprecedented accuracy of incisions in the surgical field.

The “Blue” 445 nm wavelength can also be combined with the infrared 970 nm one, thus making for a better ablative effect **(DISB)** or increased biostimulating properties **(ISB)**. These two modalities are K-Laser patents and make for a unique and exclusive surgical performance.

Fields of Application: Therapy

K-Laser Blue Derma intuitive software operates following more dynamic stages. Therefore, it allows modulating the parameters of the selected program, such as wavelength, frequency, energy and power. Using only one device, this feature guarantees a wide range of highly efficient medical applications, through tissue repair and a reinforced immune system.

- **Dermathological surgery**
  - Light nevus
  - Black benign nevus
  - Seborrheic keratosis
  - Papilloma
  - Condiloma
  - Pendulous fibroma
  - Photorejuvenation
  - Stretch marks
  - Scars
  - Resurfacing
- **Contact surgery**
- **Age/solar spots**
- **Vascular lesions**
  - Teleangectasias
  - Legs teleangectasias
  - Nose teleangectasias
  - Ruby angioma
  - Spider angioma
  - Flat angioma
  - Cavernous small angioma

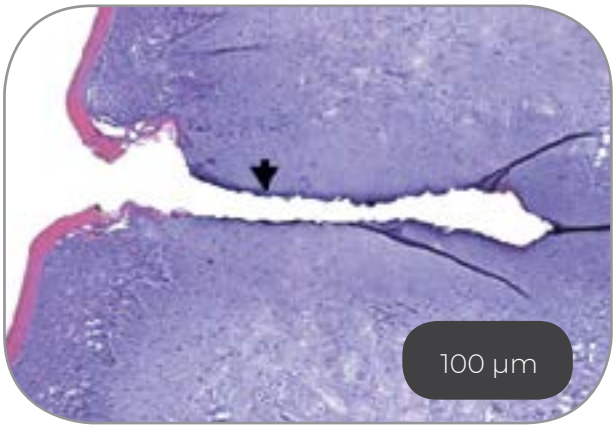
- **Dermathological therapy**
  - Acne vulgaris
  - Wounds healing
  - Diabetic ulcer
- **Musculoskeletal therapy**
  - Chronic pain
  - Acute pain
  - Inflamation
  - Edema

Excellence and Maximum Performance in Surgery

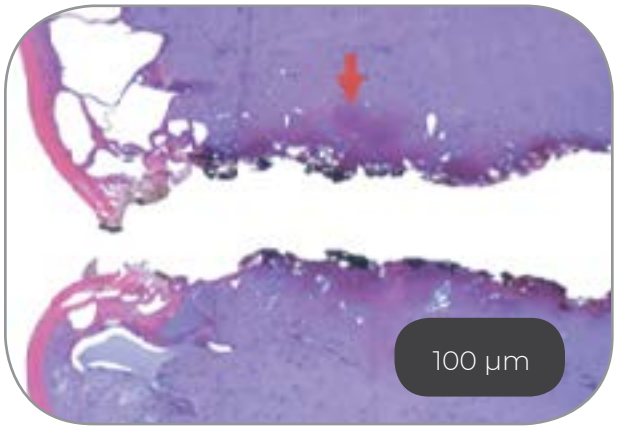
The K-Laser Blue Derma uses blue light instead of infrared wavelengths in surgery, which results in reduced thermal damage and improved interaction with hemoglobin. This laser offers superior cutting effectiveness compared to infrared lasers and minimizes tissue overheating due to the absence of water absorption.

It ensures excellent visibility of the surgical area with immediate hemostasis. During contact surgery, sterilizable fibers prevent cross-infections, providing a clean and bloodless operative field.

K-Laser Blue Derma vs Infrared Laser (IR)



Tissue after K-Laser Blue Derma intervention



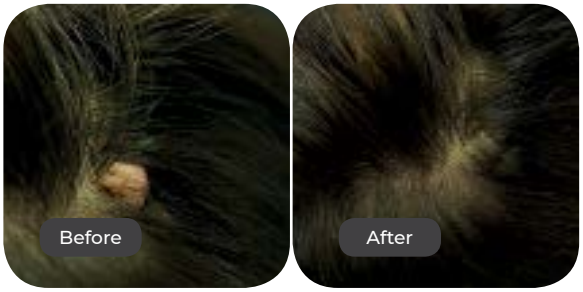
Tissue after IR Laser intervention

K-Laser Blue Derma Clinical Studies

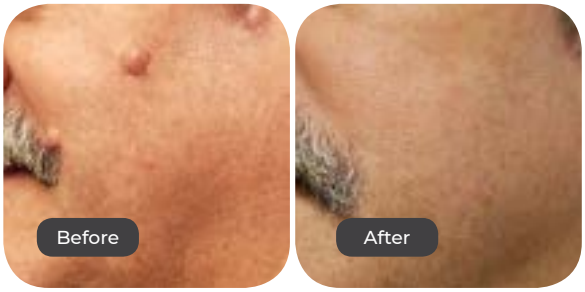
K-Laser Blue Derma can be used effectively to treat skin injuries and imperfections thanks to its high technology that consists of several interchangeable hand-pieces and thanks to its dynamic software that allows choosing from numerous application fields. Clinical results are the basis of the effectiveness of **K-Laser treatments** in **Surgery**.

Dermatological lesions

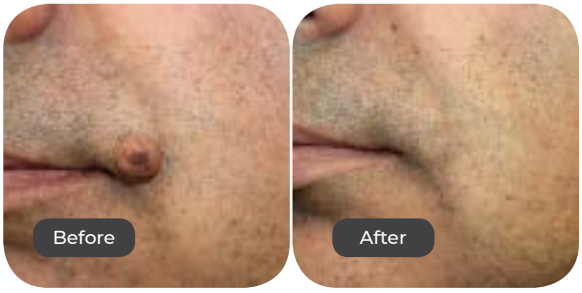
Papilloma



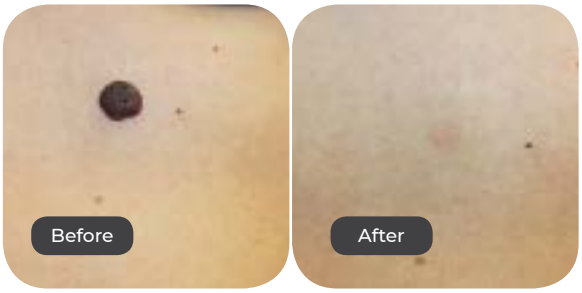
Light nevus



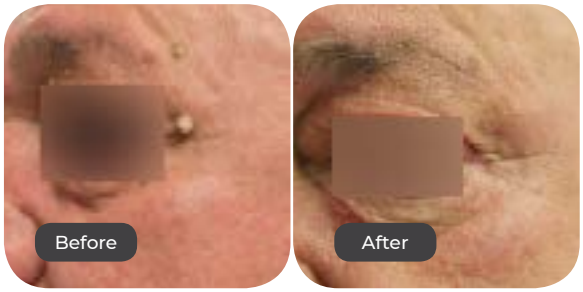
Tuberous nevus



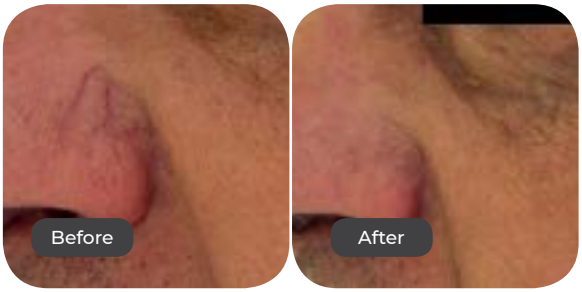
Seborrheic keratosis



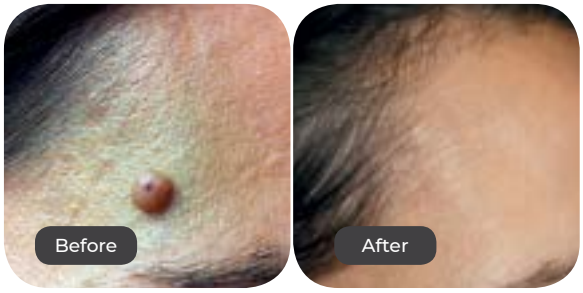
Fibroma pendulum



Nose telangiectasias



Angioma



Rosacea

Telangiectasias

Solar-age spots

Telangiectasias

K-Laser Blue Derma Clinical Studies

Dermatological Treatments

Photorejuvenation

Acne vulgaris

K-Laser Blue Derma Accessories

Revolutionary innovation for advanced surgery and laser therapy

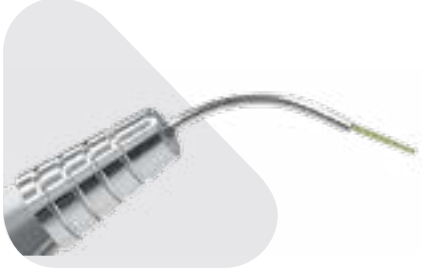
Sterilizable Opticfibre 200um Art. **6255678 (optional)**
Sterilizable Opticfibre 320um Art. **6255629**

Frax hand-piece
Art. **MP510 (optional)**

Hand-piece for non contact surgery Art. **MP386**

Set of non-contact surgical spacers Art. **MP387A-MP387B-MP387C-MP387D**

Hand-piece for contact surgery
Art. **MP384**



Single use tip
Art. **MP419**

Sterilizable sleeve for contact surgery Art. **MP385**

K-Laser Blue Derma Accessories

Optic hand-piece for therapy Art. **MP383**

ENT optic for therapy Art. **MP388**

Hand-pieces case holder series **K-Laser Blue Derma** Art. **IM023**

K-Laser case Art. **IM017A (optional)**

Switch Pedal Portable Art. **PF067**

Protective goggles for the patient for aesthetic applications Art. **PF002**

Protective glass goggles for the patient Art. **6541523 (optional)**

Protective goggles for both the operator and the patient Art. **PF002P**

Operator Dark Goggles Art. MP503

Operator Protective Goggles with folding temples **Art. MP746 (optional)**

Trolley with carrier for Tips Art. **PF095 (optional)**

K-Laser Blue Derma trolley with smoke extractor Art. **PF093 (optional)**

Blue Derma Market Advantages

K-Laser has chosen to use semiconductors due to their advantages compared to the other technologies available on the market. This makes **K-Laser** the brand of the most reliable compact devices in the world.

	K-Laser Blue	KTP	Diode Laser	Nd:YAG laser	CO_2
Wavelength	445 nm + 660 nm 970 nm	532 nm	810 to 980 nm	1064 nm	10600 nm
Model type	Compact	Large	Compact	Extra large model	Extra large model
Maintenance costs	▲	△	▲	△	△
Instructions					
Surgery (soft tissues)	▲	—	△	△	△
Surgery (dermatology)	▲	△			▲
Hemostasis	▲	▲	△	△	—
Biopsy	▲	—	—	—	—
Endovascular	▲	—	△	—	—
Vascular lesion in the face	▲	▲	△	△	—
Vascular lesion in legs	▲	△	△	△	—
Bacterial infections	▲	△	△	△	—
Photobiomodulation	▲	—	▲	△	—
Dark spots	▲	▲	△		△
Acne active phase	▲	—	—	—	—
Diagnostics	▲	—	—	—	—
Rejuvenation	▲	—	△	△	△

▲ Suitable △ Partially — Non suitable

K-Laser Blue Derma Technical Information

K-Laser Blue Derma has been designed in compliance with directives 93/42/EEC and 2007/47/CE about medical products. According to the norms in force, the device is classified as follows:

Wavelength (nm)	445 nm ± 5nm; 660 nm ± 10 nm; 970 nm ± 15 nm
Overall power (W)	13
Emission Mode	CW (continuous emission), pulsed, modality ISB, modality DISB
Protection of liquids penetration	Unity: IP20; pedal (non-waterproof cover): IPX5 (Compliant with CEI EN 60601-1)
Insulation Class	Class II, type B (compliant with CEI EN 60601-1)
Steering beam	660 nm ± 10 nm, max. 1 mW
DNRO	12.46 m max
Laser Activation	Wireless pedal
Power supply	Rechargeable battery and external power supply 100 - 240 VAC, 47 - 63 Hz
Display	Full color, LCD touchscreen
Handpiece	Interchangeable sterilisable handpieces in special metal
Fibers	200 µm 320 µm Multiuse sterilizable
Weight	1300 g (including the handpiece and the rechargeable battery)

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