

LASEMAR[®]1500

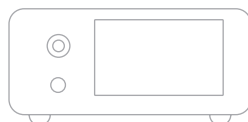
1500

THE MOST VERSATILE
1470 NM LASER

ENDOLIFT[®] | LADYLIFT[®]

FRACTIONAL NON-ABLATIVE SKIN REJUVENATION | LASER ASSISTED LIPOLYSIS
PHLEBOLOGY | PROCTOLOGY | GENERAL SURGERY | MEDICAL THERAPY

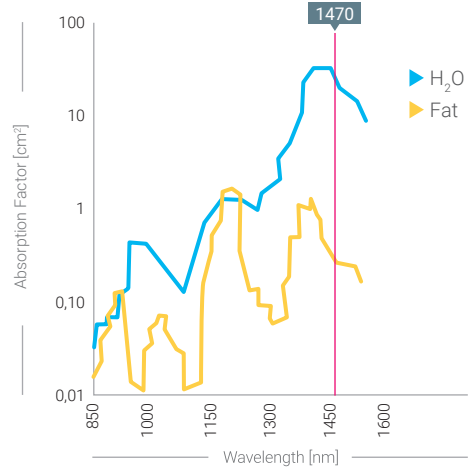
LASEmaR[®] 1500 for fractional rejuvenation, laser assisted lipolysis and phlebology.



▶ 1470 NM: THE GOLD STANDARD WAVELENGTH FOR WATER AND FAT ABSORPTION

LASEmaR® 1500 is the ideal laser for aesthetic medicine, plastic surgery and endovenous surgery. In plastic/aesthetic surgery the phenomenon, caused by its specific wavelength, is a simple and quick emulsion of fat for the laser assisted lipolysis. The use of a lower level of energy applied in Endolift® adds up the clear benefits of skin tightening.

LASEmaR® 1500 is applied for fractional rejuvenation and the treatment of acne scars, thanks to the LIGHTSCAN™ (Fractional Technology). In phlebological surgery LASEmaR® 1500 at 1470nm is known as the present gold standard for the EVLA (Endovenous Laser Ablation) in the outpatient elimination of saphenous reflux.



ADVANTAGES

- ▶ **Multifunctionality** - changing its handpieces and preset protocols, the laser is immediately usable for all the different treatments.
- ▶ **EPC - Effective Pulse Control**, maximization of the concept of selective photocoagulation for water and fat.
- ▶ **Absolute portability** thanks to the smart trolley.
- ▶ **Software** - all the treatments are preset and adjustable thanks to the easy and intuitive software.
- ▶ **Security** - the software permits to set the target parameters, warning the operator of its achievement with different voiced feedbacks, without the necessity of diverting the attention from the patient.
- ▶ **Self diagnosis** - principal circuits are continuously supervised from a security system, which informs the operator of the eventual anomalies and whenever it is necessary, it stops automatically the emission.
- ▶ **Ordinary maintenance** is not necessary and there is no need of consumption materials.
- ▶ **Working capacity** of different hours per day without any problem of overheating.

▶ LASEmaR® 1500 - APPLICATIONS AND ACCESSORIES

ENDOLIFT®

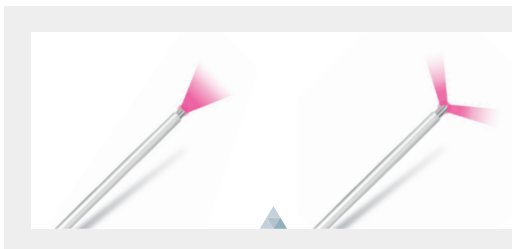
ENDOLIFT®* is a new office based procedure of laser interstitial lifting, which takes advantage of small fibers inserted without

incisions in order to obtain a lifting and immediately visible skin tightening, which are long-lasting. No use of anesthesia.

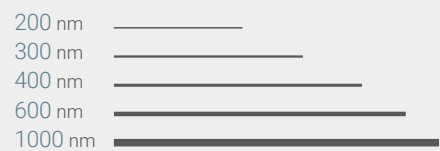
CLOSED LOWER BLEPHAROPLASTY: Before - After



NECK: Before - After



ENDOLIFT® PROBES
 Different calibres
 (from 200 to 1000 micron)
 linear and radial fibers are available.
 Single use.



* Treatments that, not being associated to diseases, are not in compliance with CE0476.

AESTHETICS AND DERMATOLOGY:

FRACTIONAL NON ABLATIVE REJUVENATION

LASEmaR® 1500 permits the non-ablative skin rejuvenation through the fractional technology LIGHTSCAN™. The treatment is made through a creation of microcolumns (MTZ Micro Thermal Zone) separated by healthy tissue, in order to have a little downtime, avoiding periods of convalescence.

LASEmaR® 1500 is particularly indicated for:

- ▶ facial wrinkles*.
- ▶ scars.
- ▶ stretch marks.
- ▶ pigmented and senile lesions.
- ▶ acne scars.
- ▶ skin firming and tightening procedures*.
- ▶ shrinking and pores*.

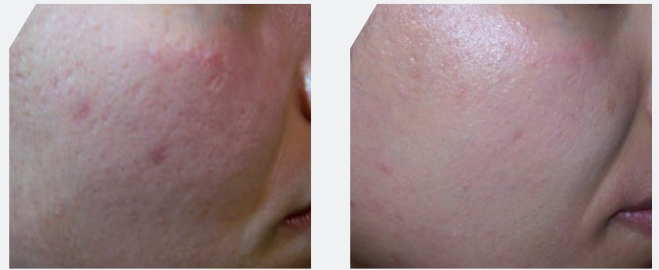
ADVANTAGES

- ▶ No anaesthesia.
- ▶ Suitable for those who desire little or no downtime.
- ▶ Reproducible, stable and satisfactory results in 3 to 5 sessions.
- ▶ Possibility to treat different zones: face, neck, hands, abdomen and chest.

FRACTIONAL REMODELLING : Before - After



ACNE SCARS: Before - After



PIGMENTATION - MELASMA : Before - After



LIGHTSCAN™ 1500

Computerized fractional scanner.

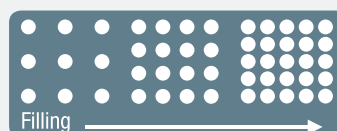
Energy, dots quantity and filling density are variable for customized settings.

LIGHTSCAN™ 1500

Dimensions and density of the spot are adjustable by the operator. Linear or random scanning mode. Absence of overlapping of the pixels. Time variable with possibility of pulse repetition.

ADVANTAGES

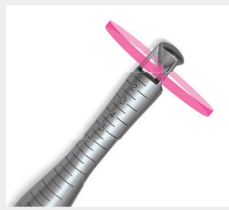
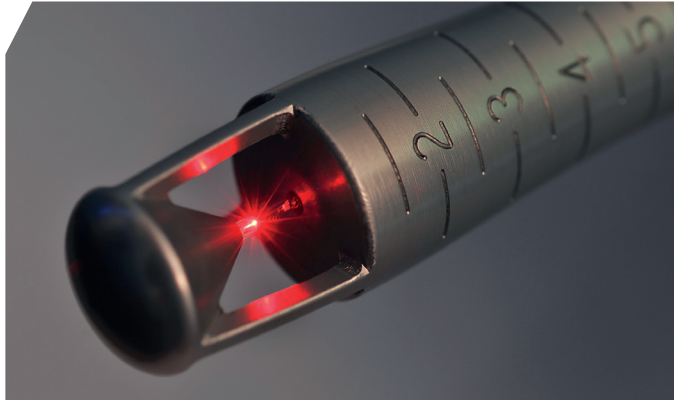
- ▶ Dimensions and density of the spot are adjustable by the user.
- ▶ Linear or random scanning mode.
- ▶ Setting of impulses/fluency variable and possibility to repeat the impulse (sticking).
- ▶ Absence of overlapping of the pixels.
- ▶ Time variable with possibility of pulse repetition.
- ▶ EPC - Effective Pulse Control, maximization of the concept of fractional non ablative photothermolysis.



GYNECOLOGY

The protocol LADYLIFT® is a safe treatment with no side effects for vaginal atrophy, stress urinary continence and tone of the vaginal walls. A new and innovative technique combines the action of the infrared laser and the LADYLIFT® handpiece in order to accelerate the production and the remodeling of mucosa's collagen.

Applications: vaginal rejuvenation*, urinary incontinence, vaginal atrophy, vaginal relaxation, diseases associated to postpartum alteration, HPV, cysts, dryness, itch.



LADYLIFT® VAGINAL HANDPIECE
For vaginal treatment.



MINITHERAPY LADYLIFT® VULVO-PERINEAL HANDPIECE
External vaginal treatment.



GYNAECOLOGICAL SURGICAL PROBE
Surgical treatment of:
- Neoplasms.
- Gynaecological surgery/labioplasty.

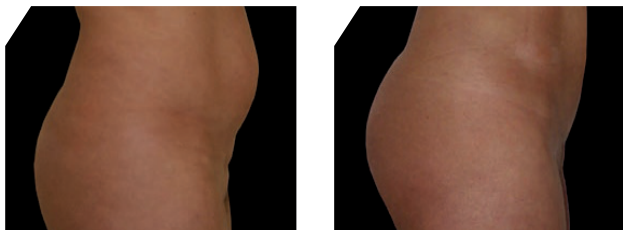
LASER ASSISTED LIPOLYSIS | LASER ASSISTED LIPOSUCTION

LASEmaR® 1500 is a fast and efficient laser for fat emulsion, skin tightening and contouring. It can be operated on face, neck, cheeks, abdomen, inner thighs, hips, gluteus, knees, arms and in all the fibrotic skins altered by ageing or by a previous operation of classic liposculpture. The results are already evident from the first treatment, but the optimal outcome will be reached after some months. It is possible a quick reabsorption of potential edemas, contusions and post intervention hematomas using the Multitherapy handpiece, thanks to its antalgic and photobiomodulating action.

ADVANTAGES

- ▶ Local anaesthesia only.
- ▶ Absence of incisions thanks to the micro cannulas.
- ▶ The speed of the treatment is due to the immediate fat emulsion.
- ▶ Limited thermal damage of neighboring tissues.
- ▶ Different sterile fibers and kits for different body areas.
- ▶ Rapid recovery of social and working activities.
- ▶ Visible results after one session.
- ▶ The device can be used both with frontal and radial fibers. Moreover, the radial emission permits a wider and even heat emission and distribution, which is a positive outcome for temperature control capabilities.

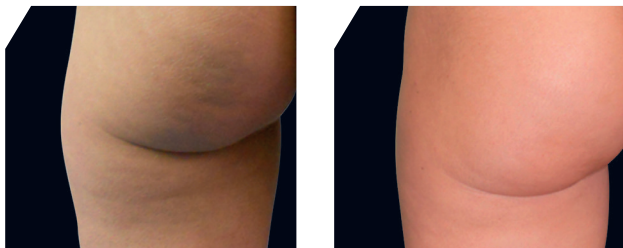
BODY: Before - After



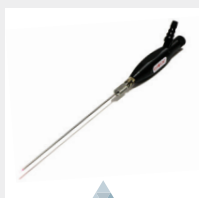
ABDOMEN: Before - After



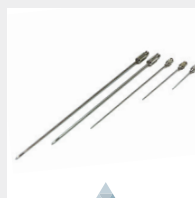
GLUTEUS: Before - After



GYNECOMASTIA : Before - After



LIPOKIT WITH OR WITHOUT SUCTION
Available different handpieces with or without suction insert. Cannulas differ for their length and calibre.



CANNULAS
Of different dimensions and calibres available upon request for fibers of 400 and 600 microns, both single use and reusable, bare and radial.

* Treatments that, not being associated to diseases, are not in compliance with CE0476.

PHLEBOLOGICAL SURGERY

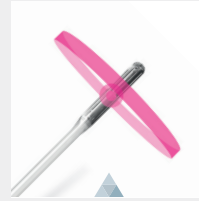
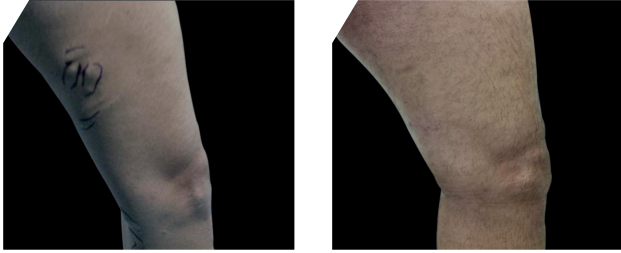
EVLA - Endovenous Laser Ablation.

Thanks to the highest water absorption LASEmaR® 1500 permits a better endovenous occlusion applying lower energetic levels LEED (Linear Endovenous Energy Density).

Phlebological indications:

- ▶ Treatment of the reflux of the great and small saphenous vein.
- ▶ Treatment of the periulcerosa varices.
- ▶ Treatment of fractional debridement of venous ulcers.
- ▶ Photobiomodulation of venous ulcers.

SAPHENOUS VEIN: Before - After



HF RING FIBER

High Focused Ring Fiber with 360° emission, single use.



INTRODUCTION KIT

Vein introduction kit complete of needle, dilatator, j-tip guide wire, sterile. Disposable.

GENERAL AND PROCTOLOGICAL SURGERY

Minimally invasive general and proctological surgery.

HEMORROIDECTOMY

Hemofiber is a specially designed probes that shoots frontally and radially for minimal invasive of hemorrhoids of grade 3 and 4 with retractable or fixed prolapse, achieving obliteration and shrinkage of tissue with limited complications preserving the musculus sphincter ani internus and the mucosa.

ANAL FISTULAS

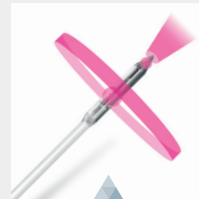
HF Ring fibers allows the closure of the fistula preserving the sphincter, without the need for medication and with a rapid return to daily routine.

HIGH LEVEL LASER THERAPY AND VULNOLOGY

With the Multitherapy Handpiece, LASEmaR® 1500 is applicable for photobiomodulation of wounds and ulcers, while trough the fractional scanner LIGHTSCAN™ it can be used for surgical debridement.

HYPERHIDROSIS

Laser sweat ablation is a procedure to stop sweating from the armpits.



HEMOFIBER

Frontal and annular emission for hemorrhoidectomy, single use. Autoclavable handpiece for insertion.



MULTITHERAPY HANDPIECE

For photobiomodulation, High Level Laser Therapy, inhibition of keloids. Quasi contact mode. Spot 40 mm.

OTHER ACCESSORIES

SMART TROLLEY - For an easy and safe transportation.

INFILTRATION PUMP - For local tumescent anaesthesia.

KIT FIBER MAINTENANCE - Equipped with fiber stripper and dedicated scissors.

COOLING SYSTEMS Fixed, portable, low cost.

PATIENT EYE SHIELDS Also intraocular and single use.

GOGGLES FOR OPERATOR AND PATIENT.



LASEmaR® 1500
is available in
SILVER, BLACK, GOLD and RED.



LASEmaR® 1500 - TECHNICAL FEATURES

Wavelength (nm)	1470 nm
Laser	High Power Diode (GaAs)
Preselected programmes	Advanced software with experienced protocols to be manually customized
Pulse duration (Ton-Toff)	Adjustable from 1 to 9000 msec - step 1 ms
Number of pulses per sequence (single and pulsed mode)	From 1 to 100 - step one
Interval between pulse sequence (pulsed mode)	Adjustable 1 ms ÷ 10 sec
Operation mode	Single pulse mode - Pulsed mode - Continuous mode
Cooling system	Air cooling system combined with Peltier's Cells
Aiming beam	Red - 635 nm - 5 mw
Electrical power	110 - 230 V 50/60 Hz
Absorbed power	300 VA peak (adapted to domestic electric standard)
In compliance with	93/42/CEE IEC 60601-1 IEC 60601-1-2 IEC 60601-2-22 IEC 60825-1
Weight and dimensions	8,5 kg - 30,5 x 35 x 15,5 cm
Production	Made in Italy



For more information about applications and accessories of LASEmaR® 1500, scan the QR - code with your tablet or smartphone.



Eufoton Srl
Via Flavia 23/1 - 34148 Trieste - Italy
Ph. +39 040 9899082 - Fax +39 040 9890555
www.eufoton.com - info@eufoton.com



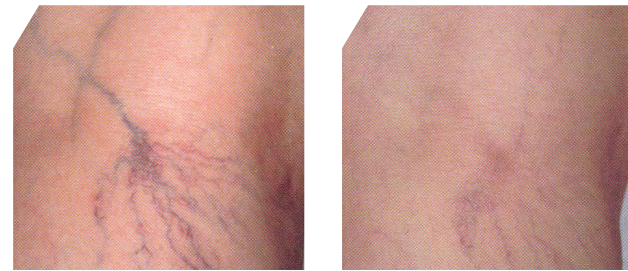
VASCULAR APPLICATIONS

LASEmaR® 800 combined with different Flebolaser kit permits the treatment of:

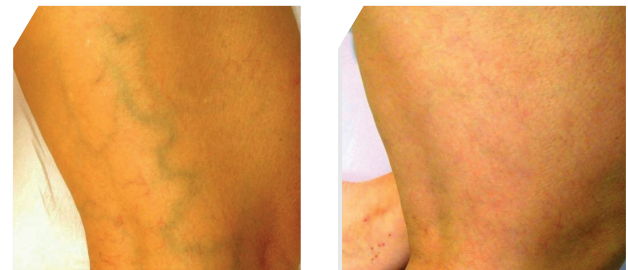
- ▶ Extra - saphenous veins (truncal and reticular) with the endoperivenous method*
- ▶ Leg Teleangectasias
- ▶ Vascular malformations (deep as well)

ULCERS

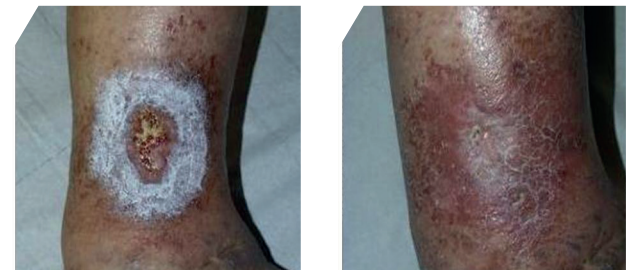
LEG TELANGECTASIAS: Before - after



RETICULAR VEINS: Before - after



ULCERS AND WOUNDS: Before - after



FLEBOLASER PROCEDURE



PHLEBOLOGY ACCESSORIES

VARIABLE FOCUS HANDPIECE ZOOM 800
Transdermal treatments of superficial and thin spider veins.

SCANNEmAR 800
Ulcers and sores cleansing and debridement.

MULTI-THERAPY HANDPIECE
Photobiomodulation of venous ulcers.

FLEBOLASER FIBERS
Single use and reusable for extra saphenous veins treatment.

ENDOVENOUS THERAPY KIT
With various lengths (needle introduction, guide wire insertion, placement catheter with calibration, laser fiber lock).

VEIN TRANSILLUMINATORS
For mapping and visualization of vessels before and during the laser treatment.

POLARIZED LIGHT HELMET
To see approximately 1 mm under skin surface. For a perfect vision of ectasia and pigmentations.

*Bibliography

Lasers in Phlebology. O. Marangoni MD, L. LONGO MD, Trieste Edizioni Goliardiche - www.lasersinphlebology.com

Endovenous 808-nm Diode Laser Occlusion of Perforating Veins and Varicose Collaterals: A Prospective Study of 482 Limbs. L.Corcoss, D.Pontello, D.De Anna, S.Dini, T.Spina, V.Barucchello, F.Carrar, B.Elezi, F.Di Benedetto, Dermatol Surg.

The 810-nm diode laser. A good wave as an alternative to the superficial VM treatment. A preliminary report. G.Vercellio, G.Carella, V.Danesino, M.G.Bordoni; 2011.



LASEmaR® 800 is available in SILVER, BLACK and GOLD.



LASEmaR® 800 - TECHNICAL FEATURES

Wavelength (nm)	808 nm
Laser	High Power Diode (GaAs)
Preselected programmes	Advanced software with experienced protocols to be manually customized
Pulse duration (Ton – Toff)	Adjustable from 1 to 9000 msec - steps 1 ms
Number of pulses per sequence (single and pulsed mode)	Adjustable from 1 to 100 – step one
Interval between pulse sequence (pulsed mode)	Adjustable 1 ms ÷ 10 sec
Operation mode	Single pulse mode - Pulsed mode - Continuous mode
Cooling system	Air cooling system combined with Peltier's Cells
Aiming beam	Red - 635 nm
Electrical power	110-230 V 50/60 Hz
Absorbed power	300 VA peak (adapted to domestic electric standard)
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Weight and dimensions	8,5 kg – 30,5 x 35 x 15,5 cm
Production	Made in Italy



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EUFOTON
medical lasers

Eufoton Srl
Via Flavia 23/1 - 34148 Trieste - Italy
Ph. +39 040 9899082 - Fax +39 040 9890555
www.eufoton.com - info@eufoton.com



Before and after photographs used in this brochure are courtesy of PA. Bacci MD, D. Cassuto MD, A. Crippa MD, M. Izzo MD, O. Marangoni MD, A. Ponti MD, L. Scrimali MD, G. Vasilescu MD.

LM

LASEmaR® 800



THE PORTABLE LASER FOR MANY NEEDS

DERMATOLOGY | ACNE | VASCULAR TREATMENTS | HAIR REMOVAL
ENDOLIFT | PHOTOREJUVENATION | LASER THERAPY | BLEACHING
PLASTIC | MICROLIPOSCULTURE | ILT ON DERMAL FILLERS COMPLICATIONS

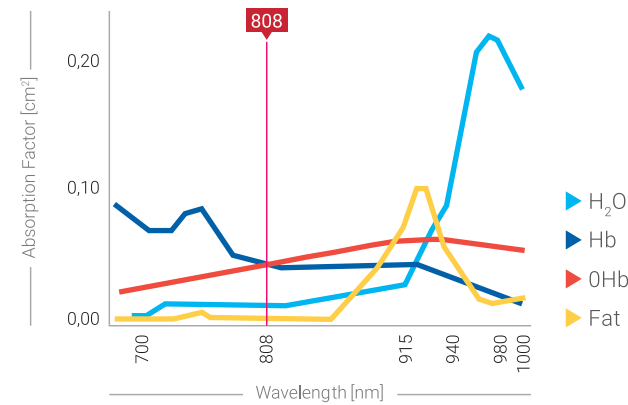
LASEmaR® 800 is a laser platform designed by Eufoton for different medical and surgical indications.



www.eufoton.com

IN MEDIO STAT VIRTUS

LASEmaR® 800 is a laser platform designed by Eufoton for different medical and surgical indications, as dermosurgery, plastic, general surgery, cosmetology, medical therapy, representing the best solution for many different applications. Thanks to its wavelength, which is optimally absorbed by melanin, haemoglobin and exogenous chromophores and scarcely by water, it is possible to achieve the mathematical photothermolysis of the targeted lesions, reducing the risk of damaging surrounding healthy tissues even in case of unintentional movements by the operator or unpredictable movements by the patients.



ADVANTAGES

- **Multifunctionality:** Changing its handpieces and preset protocols, the laser is immediately usable for all the different treatments.
- **EPC - Effective Pulse Control,** maximization of the concept of selective photocoagulation for haemoglobin, melanin and exogenous chromophores.
- **Absolute portability** thanks to the smart trolley.
- **Software** - all the treatments are preset and adjustable thanks to the easy and intuitive software.
- **Security** - the software permits to set the target parameters, warning the operator of its achievement with different voiced feedbacks, without the necessity of diverting the attention from the patient.
- **Self diagnosis** - principal circuits are continuously supervised from a security system, which informs the operator of the eventual anomalies and whenever it is necessary, it stops automatically the emission.
- **Ordinary maintenance** is not necessary and there is no need of consumption materials.
- **Working capacity** of different hours per day without any problem of overheating.

APPLICATIONS

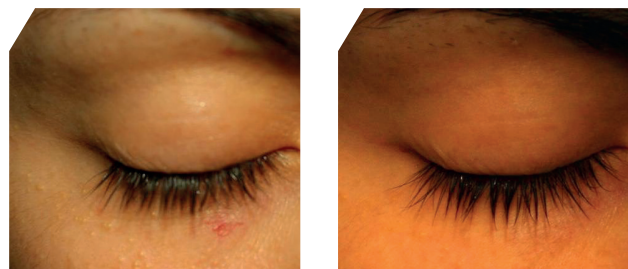
DERMATOLOGY

LASEmaR® 800 allows a selective photothermolysis on melanin chromophores (dyschromias-hair*), hemovasal chromophores (telangectasias-angiomas) and normochromic lesions, which have been artificially stained by means of exogenous chromophores. The chromophore selectivity, together with a low water absorption, permits to make use of low energy levels, thus avoiding any anesthesia and stitches with excellent results.

SENILE KERATOSIS: Before - after



SPIDER VEIN: Before - after



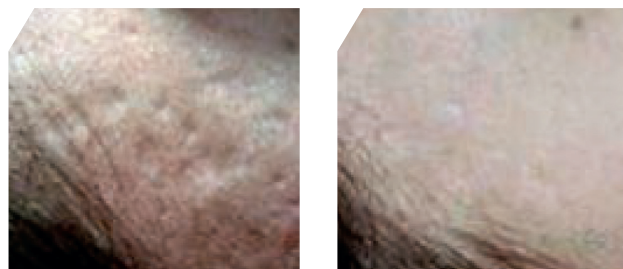
ACNE

Particularly indicated for Acne both in **active phase** with green photodynamic method (PDT - ICG) through the Multi-Therapy handpiece and in **Acne Scarring** through photodynamic selective vaporization with transdermal handpiece or fractional scanner.

INFLAMMATORY ACNE: Before - after



ACNE SCARRING: Before - after



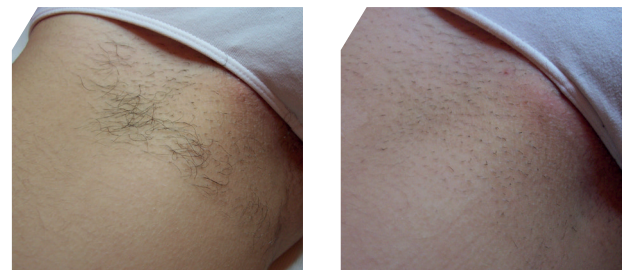
HAIR REMOVAL

In addition to the classical method for selective photothermolysis (ideal on fair skin phototype or dark hair), LASEmaR® 800 can execute treatments of photodynamic cosmetic hair removal* (PDT - ICG) on dark phototypes with fair hair (including blond and white hair).

PDT HAIR REMOVAL: Before - after



SELECTIVE PHOTOTHERMOLYSIS: Before - after



SKIN REMODELLING

Documented and confirmed scientific studies ensure that it is possible to exploit the properties of LASEmaR® 800 light for photobiomodulation on Type-I collagen and for non - ablative connective tissue remodelling on wrinkles* and striae* (phlogistic stimulus on Type-III collagen).

REMODELLING: Before - after



PHOTOBIMODULATION: Before - after



ENDOLIFT™

It is a new mini-invasive technique used to boost skin restructuring*. Thanks to this method it is possible to create a subcutaneous grid stimulating tissues and creating lines of temporary fibre retraction that fosters tissues restructuring and connective tissue photobiomodulation*. This technique can be applied to the whole face.

ENDOLIFT: Before - after



MICROLIPOSCLTURE

LASEmaR® 800 is particularly indicated for localized lipodystrophy on hips and face, allowing to achieve an excellent skin tightening with lifting effect thus reducing the so-called "orange peel" skin effect.

CHIN: Before - after



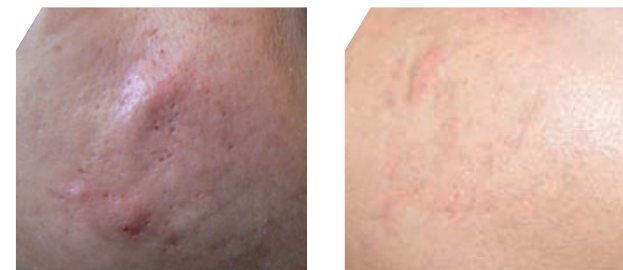
DENTAL APPLICATIONS AND COSMETIC DENTISTRY

LASEmaR® 800 permits a wide range of dental applications (surgery, periodontics, endodontics). Dental bleaching* (achieved through the specific handpiece with the specific gels) is an easy and quick method leading to stable results both on vital and non vital teeth.

SCARS

The combined use of micro-optical fibers associated to the Multi - Therapy handpiece has shown excellent results of regression of the symptomatology and healing form injuries.

THERAPY FOR KELOID INHIBITION: Before - after



ILT ON DERMAL FILLERS COMPLICATIONS

ILT - Intralésional Laser Therapy for granulomas caused by filler injections. The treatment ILT evacuates most of the granuloma caused by a foreign body (filler) interrupting rapidly the inflammatory process.

GRANULOMA: Before - after



HIGH LEVEL LASER THERAPY - HLLT

The very well known wavelength of 808 nm in association with high power emission mode makes LASEmaR® 800 available to transmit into deep high therapeutical fluencies in very short procedural time. LASEmaR® 800 has several effects: antiinflammatory, analgesic, regenerative on connective tissue, biostimulating on lymphstream and phagocytosis. It is ideal for the treatment of tendonitis, contractures, ulcers, sores, osteoarthritis, post-traumatic pains.

LATERAL EPICONDYLITIS



ACCESSORIES



VARIABLE FOCUS HANDPIECE ZOOM 800
For transdermal applications (dermatological lesions, vascular, pigmentations) for the safe maintenance of the chosen spot size.



FRACTIONAL LIGHTSCAN 800
Scanner with its dedicated management software. Possibility to select path: random or linear modality, creation of different figures. Applications: fractional rejuvenation.



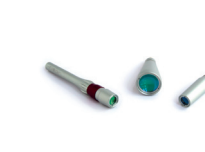
SCANNemaR 800
Rotating scanner with electronically-controlled ellipsoid movement. Applications: rejuvenation (skin remodeling), vulnology (debridement).



SURGICAL HANDPIECE
For contact applications in combination with optical fibers. Applications: surgery, dermatology, oral surgery.



MULTI-THERAPY HANDPIECE
For photobiomodulation, High Level Laser Therapy, inhibition of keloids, PDT-ICG Hair Removal. Quasi contact mode. Spot 40 mm.



MULTI-THERAPY FLAT HANDPIECE
Flat wave for same applications as Multitherapy Handpiece. It allows to be always focused from 0 to 30 cm distance. Available in 3 spot sizes: 5, 10, 20 mm.



HANDPIECE FOR MICROLIPOSCLPTURE
With cannulas of variable diameters and length.



MINI THERAPY HANDPIECE
For the treatment of the most frequent dental dyschromies.



OPTICAL FIBERS AND RELATED ACCESSORIES
Single use and reusable. Different calibres are available: from 100 to 1000 micron.

OTHER ACCESSORIES

SKIN COOLING SYSTEMS

To reduce skin temperature during laser treatments; used in injection therapy, filler and dermo - electrosurgery as well.

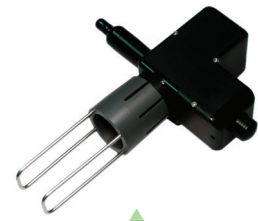
PROTECTIVE GLASSES

For the operator and the patient.

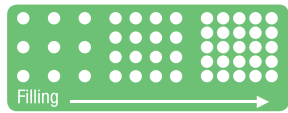
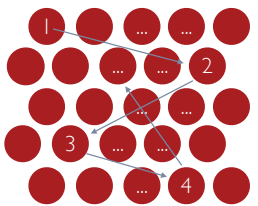


SMART TROLLEY
Resistant trolley for easy and safe transport.

LIGHTSCAN 500



RANDOM PATH



For major areas (as decollété and cheeks) it is possible to use the fractional scanner, where the linear or random scanning mode is very important because it permits to work almost in all the cases without anaesthesia. As in ablative lasers the distance between the single fractional spots of green colour on the skin is percentually controlled so that the photothermolitic heating is limited and consequently not painful. The result is an extremely accurate operation, rapid and efficient, in order to not create side effects as hyperpigmentations, hypopigmentations or even scars.

When the fractional scanner is used, it is necessary to choose the percentage of covering for the treated zone, variable from a minimum of 10% to a maximum of 40% of density.

The fractional scanner permits to treat extended both vascular applications (as plan angiomas and PWS) and dermoaesthetics (photorejuvenation*, fine wrinkles*, microectasias, epidermal pigmentation, enlarged pores*, red stretchmarks*, scars, keloids, acne in active phase).

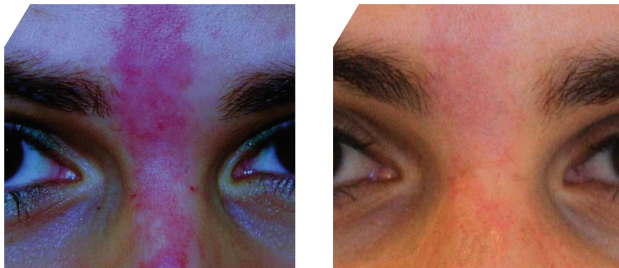
The result of photorejuvenation can be seen from the first treatment and the improvement continues also at the end of the whole cycle of treatments (3-5 following months) thanks to the creation of new collagen and the immediate reduction of the pigmented lesions. It is possible to treat different areas: face, neck, hands, abdomen, chest.

ADVANTAGES

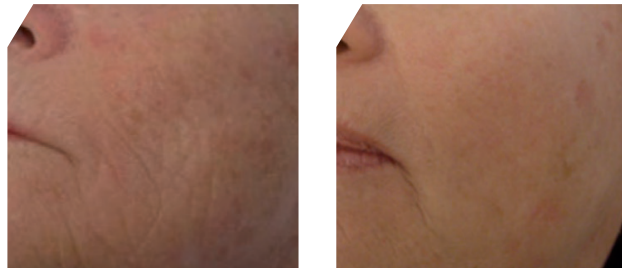
- ▶ Dimension and density adjustable by the user.
- ▶ Linear or random scanning mode.
- ▶ Setting of impulses/fluency variable and possibility to repeat the impulse (stucking)
- ▶ EPC - Effective Pulse Control, maximization of the concept of selective photocoagulation for oxyhemoglobin and melanin (selective superficial and bloodless treatments).

LIGHTSCAN TREATMENTS

PSW - PORT WINE STAINS: Before - after



PHOTOREJUVENATION: Before - after



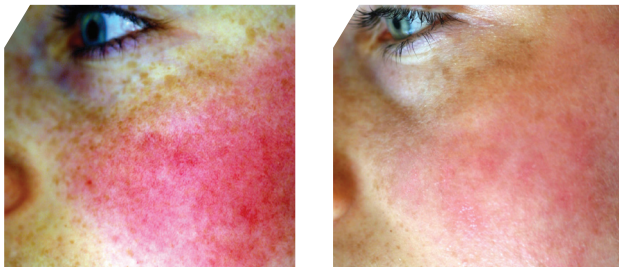
FLAT ANGIOMAS: Before - after



ACTIVE ACNE: Before - after



ERYTHROSIS ROSACEA: Before - after



VASCULAR AND REJUVENATION: Before - after



LASEmaR® 500 - TECHNICAL FEATURES

Wavelength (nm)	LBO - 532 nm
Preselected programmes	Advanced software with experienced protocols to be manually customized
Pulse duration (Ton-Toff)	Adjustable from 1 to 9000 msec - steps 1 ms
Number of pulses per sequence (single and pulsed mode)	From 1 to 100 - step one
Interval between pulse sequence (pulsed mode)	Adjustable 1 ms ÷ 10 sec
Operation mode	Single pulse mode - Pulsed mode - Continuous mode
Cooling system	Air cooling system combined with Peltier's Cells
Aiming beam	Red - 670 nm
Electrical power	110 - 230 V 50/60 Hz
Absorbed power	300 VA peak (adapted to domestic electric standard)
In compliance with	93/42/CEE IEC 60601-1 IEC 60601-1-2 IEC 60601-2-22 IEC 60825-1
Weight and dimensions	10 kg - 30,5 x 35 x 15,5 cm
Production	Made in Italy



0476

For more information about applications and accessories of LASEmaR® 500, scan the QR - code with your tablet or smartphone.

EUFOTON
medical lasers

Eufoton Srl
Via Flavia 23/1 - 34148 Trieste - Italy
Ph. +39 040 9899082 - Fax +39 040 9890555
www.eufoton.com - info@eufoton.com



Before and after photographs used in this brochure are courtesy of: A. Agolzer MD, D. Cassuto MD, A. Crippa MD, O. Marangoni MD, L. Scrimali MD, F. Zini MD.

LM

LASEMAR®500

LASEmaR® 500 is available in SILVER, BLACK and GOLD.



THE DELICATE LASER TO ERASE SKIN'S IMPERFECTIONS

VASCULAR LESIONS | PIGMENTED LESIONS | SKIN BENIGN LESIONS
SCARS, KELOIDS AND STRETCH MARKS | PHOTOREJUVENATION | DENTISTRY

LASEmaR® 500 is the gold standard in the treatment of pigmented and vascular skin lesions, due to its extremely high absorption by oxy-haemoglobin and melanin.



www.eufoton.com

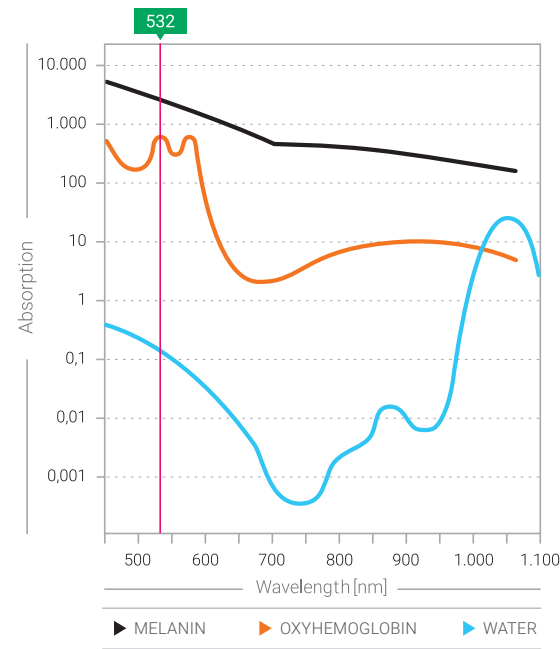
* Treatments that, not being associated to diseases, are not in compliance with CE0476.

FOR A SUPERFICIAL USE

LASEmar® 500 is the gold standard in the treatment of superficial and vascular skin lesions. Its diode of green wavelength (532nm) represents the maximum absorption by melanin and oxy - haemoglobin (see diagram at the right).

ADVANTAGES

- **Multifunctionality**. Changing its handpieces and preset protocols, the laser is immediately usable for all the different treatments.
- **Absolute portability** thanks to the smart trolley.
- **Software** - all the treatments are preset and adjustable thanks to the easy and intuitive software.
- **Security** - the software permits to set the target parameters, warning the operator of its achievement with different voiced feedbacks, without the necessity of diverting the attention from the patient.
- **Self diagnosis** - principal circuits are continuously supervised from a security system, which informs the operator of the eventual anomalies and whenever it is necessary, it stops automatically the emission.
- **Ordinary maintenance** is not necessary and there is no need of consumption materials.
- **Working capacity** of different hours per day without any problem of overheating.

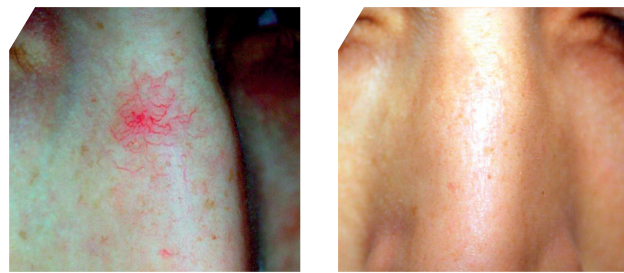


APPLICATIONS

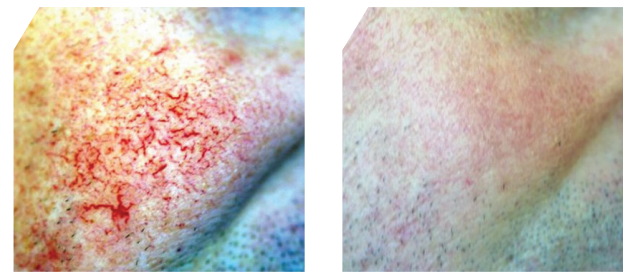
VASCULAR LESIONS

Red telangectasias, Couperose, Matting, Neovascularization, Rosacea, Port wine stains (PWS), Venous lake, Senile angiomas, (stellate, cherry).

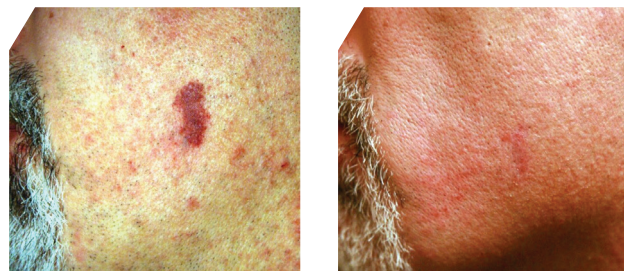
SPIDER NAEVUS: Before - after



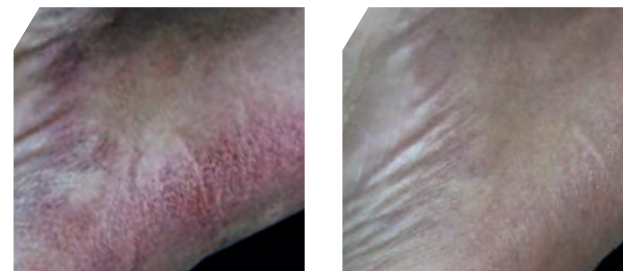
CHEEK TELEANGECTASIA: Before - after



FACIAL ANGIOMA: Before - after



MATTING: Before - after



PIGMENTED LESIONS

Freckles, Dermatitis, Café au lait stains, Papulosis nigra, Hyperkeratotic lesions, Poikiloderma of Civatte.

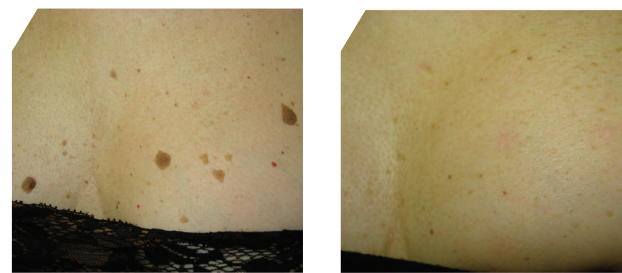
HAND MELANOSIS: Before - after



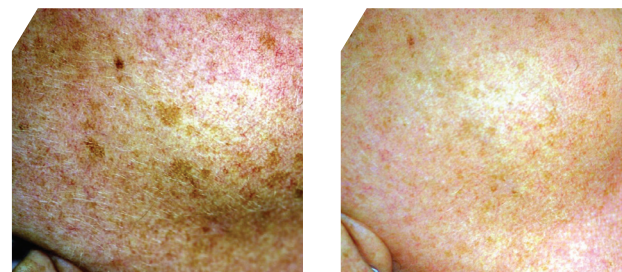
LENTIGO: Before - after



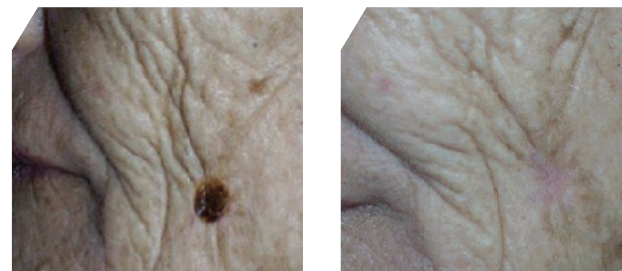
SCATTERED HYPERPIGMENTATIONS: Before - after



LENTIGO AND REJUVENATION: Before - after



HYPERKERATOTIK LESION: Before - after



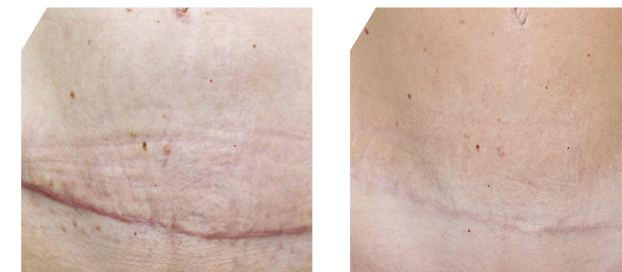
SCARS AND GRANULOMAS

Hyperkeratotic scars, vascularized keloids, red stretchmarks*, red scars.

CUT WOUND: Before - after



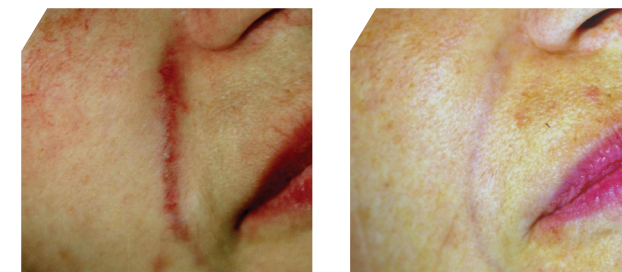
ABDOMINOPLASTY SCAR: Before - after



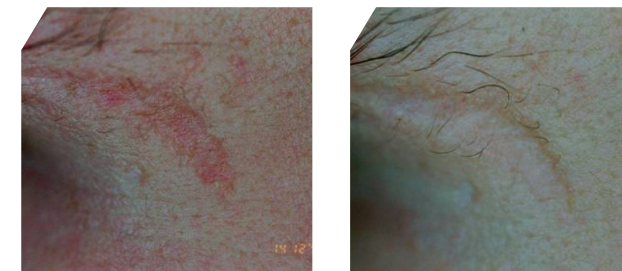
ORTHOPEDIC SCARS: Before - after



GRANULOMA SCAR: Before - after



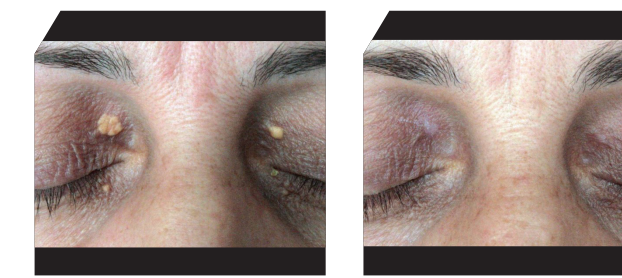
TEMPORAL SCAR: Before - after



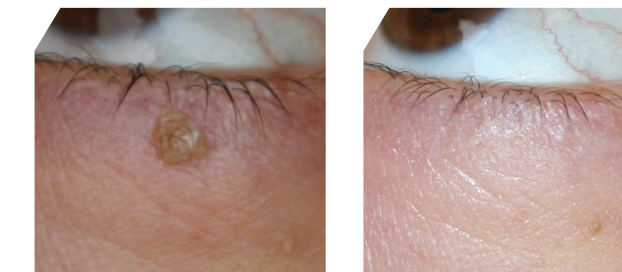
DERMOSURGERY

Couperose, Spider veins, Fibromas, Xantelasma.

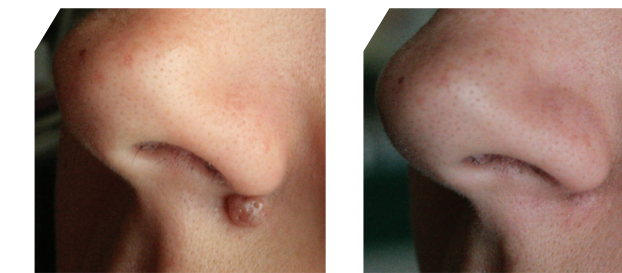
XANTELASMAS: Before - after



KERATOSIS: Before - after



EPIDERMAL NAEVUS: Before - after



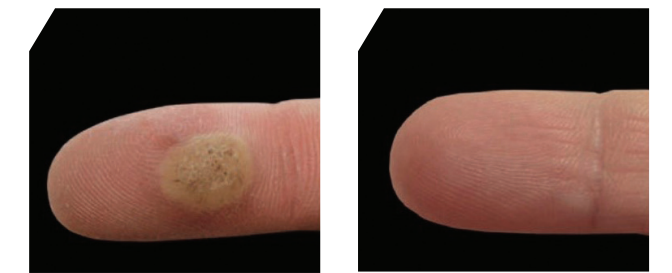
KERATOSIS: Before - after



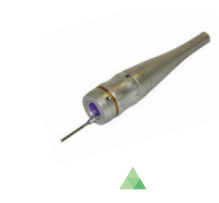
RHINOPHYMA: Before - after



FINGER WART: Before - after



ACCESSORIES



VARIABLE FOCUS ZOOM 500 HANDPIECE
For transdermal applications (dermatological and vascular lesions and pigmentations) for the safe maintenance of the chosen spot. For contactless applications. Spot size: from 0,5 to 2 mm.



SURGICAL HANDPIECE
For applications in dermatosurgery in combination to the micro - optical fiber (0,2 mm spot).



MINI THERAPY HANDPIECE
Applications: photobiomodulation, cosmetic dentistry.



SMART TROLLEY
Resistant trolley for easy and safe transport.

OTHER ACCESSORIES

POLARIZED LIGHT HELMET

For a perfect vision of superficial, vascular and pigmented lesions.

COOLING SYSTEMS

Different versions available: both fixed and portable.

METALLIC CART

EUFOTON VACUUM II

Surgical smoke evacuator complete of active carbon's filter and articulated arm

PROTECTIVE GLASSES AND EYE PROTECTORS

For the operator and the patient.

* Treatments that, not being associated to diseases, are not in compliance with CE0476.

SPECTRUM VASCULAR DUAL BOOST

With the innovative Dual Boost technology, Spectrum® allows to treat transdermally vascular lesions (telangectasias) in a much more efficient way than the traditional use of a single wavelength. Dual Boost permits the combined use of the green light 532nm, more selective for the oxy-hemoglobin, and the infrared light 808/940nm, mainly absorbed by the methemoglobin. The two wavelengths are delivered simultaneously and sequentially in the same handpiece, generating a much more selective photothermolysis.



NEW
VASCULAR TRANSDERMIC
BROADBAND HANDPIECE

CHARACTERISTICS

The sequential emission with **Spectrum®** provides the common action of the visible wavelength associated with the infrared wavelength. The first part of the visible pulse rises the temperature in the vessel, converting oxy-hemoglobin into methemoglobin increasing the absorption of the second part of the pulse by 500%.

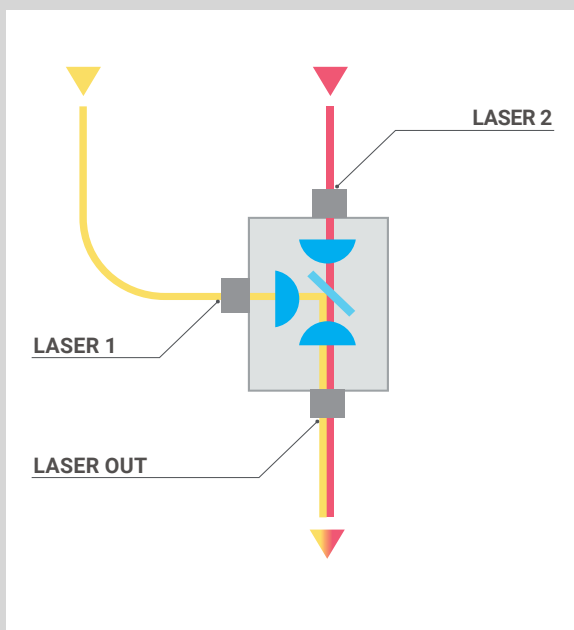
The visible wavelength allows to obtain a complete coagulation and therefore occlusion inside the vessel, leaving unharmed the tissue around (cutaneous annexes).

When the infrared light hits the target vessel, it enables the use of inferior fluences with subsequent higher safety for the patient, reducing considerably the risk of complications such as redness, pigmentations or burn. Less side effects means that the patient can go back to everyday activities immediately.

Thanks to the higher selectivity, the results obtained are better than those brought with the use of a single wavelength.

With the technology **Dual Boost, Spectrum®** brings maximum results in the removal of vascular blemishes in less time than single wavelength systems.

With the new technology physicians can provide to their patients better comfort, safety and satisfaction.



CLINICAL RESULTS



ACCESSORIES



FRACTIONAL TRANSDERMIC SCANNER LIGHTSCAN



VASCULAR TRANSDERMIC BROADBAND HANDPIECE



CRIOGENIC SYSTEM CRIOJET

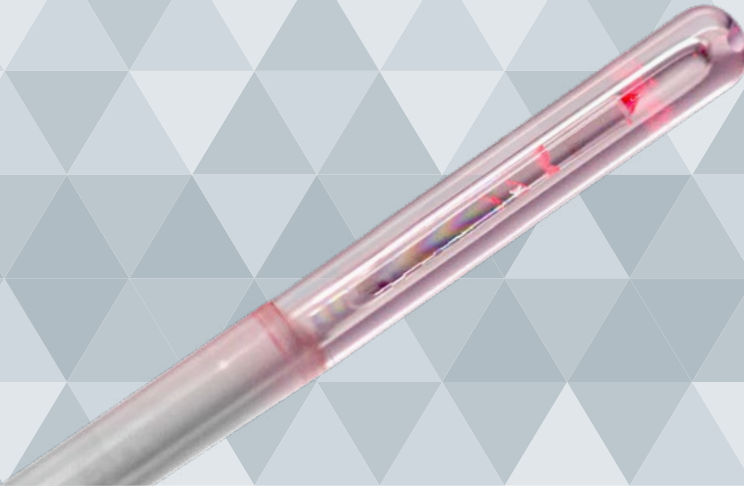


TROLLEY FOR EASY TRANSPORT

LM

LASEMAR®

LASEMAR® mini



1000

1500

2000

L'EVOLUZIONE DELLA CHIRURGIA LASER MININVASIVA

CHIRURGIA FLEBOLOGICA E VASCOLARE | PROCTOLOGIA

La malattia venosa cronica degli arti inferiori rappresenta una condizione patologica purtroppo molto comune che colpisce circa il 25% delle donne ed il 15% degli uomini.

Inoltre, l'alto tasso di recidiva ed il rischio di evoluzione verso ulcere croniche, incidono gravemente sul sistema sanitario.

La tecnologia attuale EVLA è il risultato di oltre 20 anni di ricerca ed innovazione e permette una progressiva evoluzione verso un trattamento flebologico ambulatoriale, più che mai necessario, sia per la mininvasività che per motivi economici.

Da circa 10 anni lo stato dell'arte tecnologico EVLA è rappresentato dalle lunghezze d'onda maggiormente interferenti con l'acqua (1470 / 1940 nm) che grazie ai software interattivi consentono di standardizzare agevolmente verso il basso i valori di **LEED - Linear Endovenous Energy Density** - sui quali si basano i successi a lungo termine delle fototermoablazioni laser.

L'introduzione delle ultime generazioni di fibre radiali ad alta focalizzazione **HF RING**, che combinano l'elevata efficacia della sorgente laser sul cromoforo acqua con un'emissione laser omogenea ed estremamente precisa, hanno praticamente annullato i tassi di perforazione della parete venosa.

Inoltre, l'elevata ecogenicità delle fibre HF Ring assieme al software dell'unità laser, che fornisce un controllo costante della LEED, consentono risultati operatori che sono da considerarsi eccellenti nel breve termine (2 anni) e totalmente competitivi nel medio-lungo termine (>5 anni), rispetto alle altre opzioni

terapeutiche (chirurgia ablativa). La disponibilità di fibre radiali di dimensioni diverse, in particolare 600 micron e 400 micron consente di trattare non solo la GVS, ma anche la PVS, gli altri distretti varicosi extrasafenici, i monconi e le perforanti.

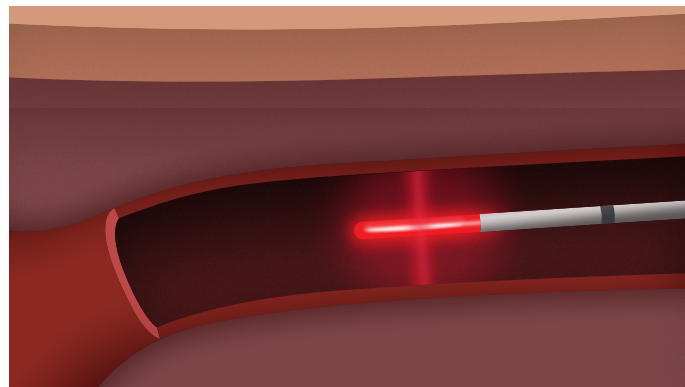
LA PROCEDURA

Eufoton® propone una metodologia di fotoablazione endovascolare mininvasiva ecoguidata associabile anche ad altre tecniche combinate (flebectomie e scleroterapia).

Il trattamento avviene grazie alla combinazione dei laser della serie **LASEmaR®** (lunghezze d'onda a 980, 1470 - singola o Dual /o 1940 nm) e delle fibre ottiche di tipo radiale ad alta focalizzazione **HF RING**.

Sicurezza, replicabilità ed adattabilità della procedura

Parametro fondamentale per la riuscita dell'intervento è l'energia per centimetro lineare di vena - LEED - Linear Endovenous Energy Density - la quale viene monitorata sullo schermo del laser e segnalata acusticamente e visivamente all'operatore che agisce sempre in modalità ecoguidata. La corretta impostazione della LEED secondo le caratteristiche del singolo vaso permette la distribuzione dell'energia laser in modo uniforme evitando dosi energetiche errate (sotto/sovradimensionate).



Prima - Dopo



Le fibre ottiche endovascolari **Eufoton® HF Ring** rappresentano l'ultima evoluzione tecnologica delle fibre **Eufoton®** ad alta focalizzazione radiale. Sono progettate per emettere un anello di luce laser focalizzato su un microspot e permettono una diffusione di energia anulare ultra-precisa e di conseguenza un'ablazione che **richiede parametri energetici inferiori rispetto alla concorrenza.**

I vantaggi ottici delle fibre HF Ring sono così riassumibili:

**MAGGIORE FLUENZA ANULARE =
MINORE LEED (LINEAR ENDOVENOUS ENERGY DENSITY) =
MINORE DISPERSIONE TERMICA PERIVENOSA =
MINORE DOLORE POSTOPERATORIO**

Gli ulteriori vantaggi operativi sono:

- ▶ Maggiore ecogenicità rilevabile attraverso diversi tipi di ecografi;
- ▶ Accesso endovenoso facilitato grazie alla punta conica arrotondata;
- ▶ Marcatura laser a 360° del sistema di misura centimetrata per regolare esattamente il dosaggio di energia in retrazione - **LEED**;
- ▶ Presenza di un rivestimento esterno easygrip che agevola l'accoppiamento con eventuale sistema automatico di pull back **Chorus** ;
- ▶ Presenza di un puntatore ottico ad alta resa per la transilluminazione/posizionamento in vena;
- ▶ Disponibilità in due diametri 400/600 µm.

Schema ottico
HF Ring

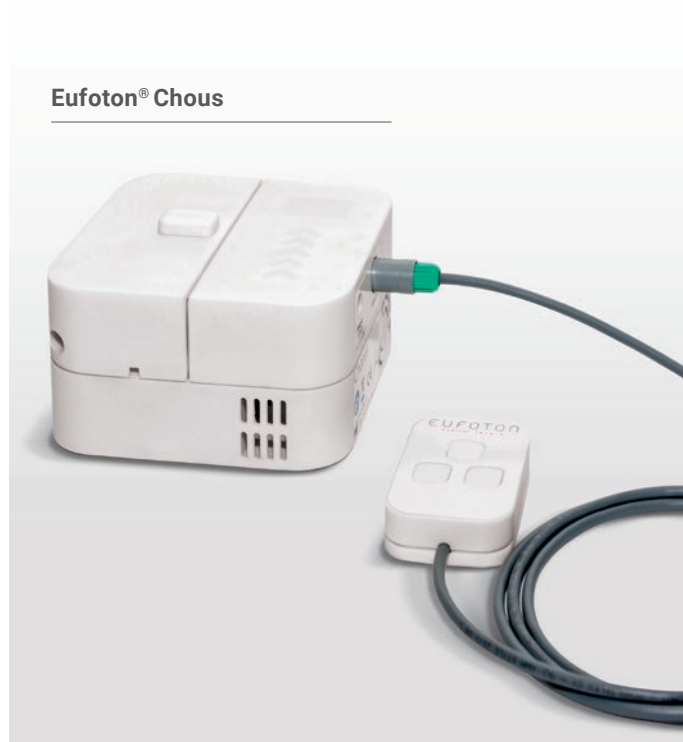


Il vantaggio di Eufoton® Chorus

Il dispositivo pull-back ultraportatile **Chorus** consente la standardizzazione automatica di retrazione della fibra e di calibrare l'energia **LEED** a seconda del diametro della vena, adattando l'emissione alle diverse caratteristiche della stessa, aumentando e diminuendo la quantità di energia, garantendo omogeneità completa e precisa per tutta la lunghezza del vaso.

Chorus funziona in sinergia con il software "cruise control" dei sistemi laser Eufoton® e consente di eseguire l'intervento rapidamente, permettendo eventuali altre procedure simultanee.

Eufoton® Chorus



HEMOFIBER & EMORROIDI



Hemofiber è una fibra laser speciale dedicata al trattamento delle emorroidi. Dispone di due punti di emissione simultanea: quello laterale emittente radialmente a 360° mentre quello frontale rilascia energia dalla punta conica. L'emissione radiale consente una migliore diffusione circonferenziale di energia per un'ablazione laterale più efficace, mentre l'emissione conica frontale facilita

l'accesso chirurgico e consente una maggiore precisione coagulativa sulla mucosa superficiale.

Viene utilizzato nelle terapie laser mininvasive per la cura delle emorroidi anche di III° e IV° con un prolasso ritrattabile o fisso.

Con **Hemofiber** si ottiene la fototermocoagulazione e successiva coartazione dei vasi emorroidari con minime complicanze; oltre a questo, la doppia missione della fibra protegge i muscoli dell'ano e della mucosa, ripristinandone rapidamente la naturale struttura anatomica.

Vantaggi Hemofiber

- ▶ Punta conica ad emissione frontale per un accesso mininvasivo facilitato associata ad una seconda emissione radiale a 360° a valle della frontale;
- ▶ Connettore tipo Luer-lock innestato sulla fibra per fissare l'ago introduttore (monouso) e il manipolo di sostegno Hemo (autoclavabile);
- ▶ Capsula emittente della fibra è costituita da una miscela silicea ad alta resistenza meccanica che permette di ridurre l'energia e di sfruttare al meglio la transilluminazione del raggio guida durante l'intervento.

TRATTAMENTO EMORROIDI : Prima e dopo



First contact.



3 Weeks after surgery.



3 Weeks after surgery, internal findings.

In campo proctologico le peculiarità ottiche delle fibre HF RING permettono di ottenere eccellenti risultati per le fototermocoagulazioni limitando il danno termico ai tessuti circostanti e riducendo i dolori post-operatori.

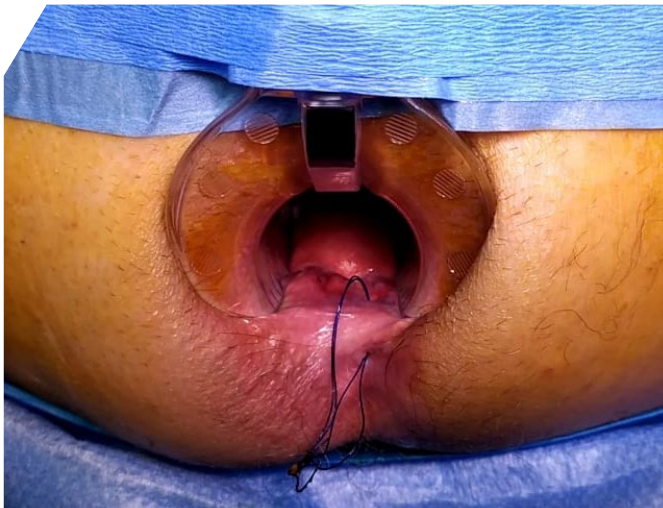
Le applicazioni sono: fistola sacrococcigea e fistole perianali.

Nel trattamento delle fistole perianali la procedura laser assistita ha l'intento di chiudere la fistola preservando lo sfintere, senza la necessità di medicazioni e con un rapido recupero della routine giornaliera. Il campo di applicazioni include: fistole anali transinteriche basse, medie e alte, indipendentemente dalla sede, dalla lunghezza e dalla tortuosità, sia uniche che multiple, sia con preventivo posizionamento di setone diretto od in corso di primo tempo di fistulectomia e, naturalmente, recidive.

I vantaggi della fistulectomia laser assistita sono:

- ▶ Massimo rispetto della muscolatura sfinteriale;
- ▶ Nessuna escissione o splitting;
- ▶ Rapida esecuzione ;
- ▶ Combinabile con altre opzioni terapeutiche;
- ▶ Nessuna medicazione;
- ▶ Scarsa componente dolorosa;
- ▶ Nessuna necessità di igiene particolare.

TRATTAMENTO LASER FISTOLA ANALE



LASEmaR® - DETTAGLI TECNICI



Lunghezza d'onda 1470nm (1940 su richiesta)

Laser Diodo ad alta potenza (GaAs)

Programmi preselezionati Software avanzato con protocolli comprovati da personalizzare manualmente

Modalità operativa Modalità impulso singolo - Modalità pulsata
Modalità continua

Fascio di puntamento Rosso - 635 nm - 5 mw

Consumo energetico 300 VA picco
(adeguato allo standard elettrico domestico)

Conforme a 93/42/CEE
IEC 60601-1
IEC 60601-1-2
IEC 60601-2-22
IEC 60825-1



Peso e dimensioni 8,5 kg - 30,5 x 35 x 15,5 cm

Produzione Made in Italy

LASEmaR®MINI - DETTAGLI TECNICI



Lunghezza d'onda 980nm, 1470nm,
980nm-1470nm selezionabile singolarmente

Laser Diodo ad alta potenza (GaAs)

Programmi preselezionati Software avanzato con protocolli comprovati da personalizzare manualmente

Modalità operativa Modalità impulso singolo - Modalità pulsata
Modalità continua

Fascio di puntamento Rosso - 635 nm - 5 mw

Consumo energetico 130 VA picco
(adeguato allo standard elettrico domestico)

Conforme a 93/42/CEE
IEC 60601-1
IEC 60601-1-2
IEC 60601-2-22
IEC 60825-1



Peso e dimensioni 3 kg - 24 x 22,5 x 11,5 cm

Produzione Made in Italy

Per ulteriori informazioni sulle applicazioni e gli accessori scansionare il codice QR con un tablet o uno smartphone.

EUFOTON
medical lasers

Eufoton Srl
Via Flavia 23/1 - 34148 Trieste - Italy
Ph. +39 040 9899082 - Fax +39 040 9890555
www.eufoton.com - info@eufoton.com

ISO 9001
QUALITY ASSURANCE

ISO 13485
QUALITY ASSURANCE



Prima e Dopo per gentile concessione dei dottori C. Baraldi, L. Tessari, F. Zini, F. Cantarella

LM

LASEMAR[®] mini 450



DERMOCHIRURGIA | LESIONI VASCOLARI | LESIONI PIGMENTATE

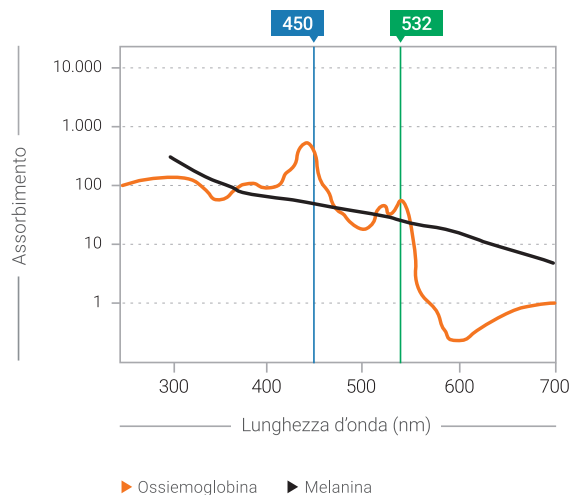
Il minilaser blu compatto per le applicazioni dermovascolari superficiali

www.eufoton.com

LASEMAR® MINI 450 è il nuovo standard di riferimento nel trattamento superficiale delle lesioni cutanee e vascolari grazie al forte assorbimento da parte della melanina e dell'ossiemoglobina.

PER APPLICAZIONI DERMOVASCOLARI SUPERFICIALI

LASEMAR® MINI 450 è uno standard di riferimento nel trattamento di lesioni cutanee superficiali e vascolari. Il suo diodo a luce blu (lunghezza d'onda 450 nm) consente il massimo assorbimento da parte della melanina per una delicata dermoablazione e dell'ossiemoglobina per il vascolare rosso superficiale (vedere il diagramma a destra).



VANTAGGI

- ▶ **Software** - interfaccia utente chiara e moderna con programmi preimpostati, facilmente modificabili per adattarsi ad ogni tipo di situazione.
- ▶ **Sicurezza** - il software consente di impostare i parametri target, avvertendo l'operatore del loro raggiungimento con diversi feedback sonori, senza bisogno di distogliere l'attenzione dal paziente.
- ▶ **Portabilità assoluta** - sistema mini "all in one" - disponibile a scelta la comoda valigetta o il pratico zainetto da spalla.
- ▶ **Non richiede manutenzione ordinaria** e non è necessario alcun materiale di consumo.
- ▶ **Capacità di lavoro** di diverse ore al giorno senza alcun problema di surriscaldamento.
- ▶ **Pronto per il futuro** - protocolli ed interfaccia utente aggiornabili per adattarsi ad ogni esigenza e restare sempre al passo con i tempi.

LASEMAR® 450 - APPLICAZIONI

DERMOCHIRURGIA SENZA ANESTESIA

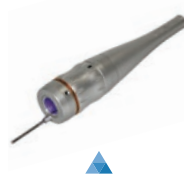
ABLAZIONE DELICATA E INDOLORE DI:

- LESIONI DERMATOLOGICHE BENIGNE ESOFITICHE
- CHERATOSI
- VERRUCHE
- FIBROMI
- XANTELASMI
- DERMATOSIPAPULOSI NIGRA
- LENTIGO

LESIONI VASCOLARI

- TELEANGECTASIE ROSSE
- MICROCOUPEROSE MATTING
- NEOVASCOLARIZZAZIONI
- ROSACEA

ACCESSORI



MANIPOLO A FOCALE VARIABILE ZOOM

Dotato di sistema ottico zoom per applicazioni transdermiche per mantenere lo spot prescelto intotale sicurezza. Dimensioni variabili dello spot: da 0,5 a 2 mm.

ALTRI ACCESSORI

CASCHETTO A LUCE POLARIZZATA

Per una visione perfetta di lesioni superficiali, vascolari e pigmentate.

SISTEMI DI RAFFREDDAMENTO

Diverse versioni disponibili, fisse e portatili.

OCCHIALI PROTETTIVI E PROTETTORI OCULARI

Per l'operatore e per il paziente

Per ulteriori informazioni sulle applicazioni e gli accessori scansionare il codice QR con un tablet o uno smartphone.

