

PHLEBOLOGICAL SURGERY

**EVLA - Endovenous Laser Ablation.**

Thanks to the high 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 saphena
- Treatment of the periculosa varices
- Treatment of fractional debridement of venous ulcers.
- Photobiomodulation of venous ulcers.

**SAPHENOUS VEIN:** Before - after



GENERAL AND PROCTOLOGICAL SURGERY

**Minimally invasive general and proctological surgery.**

HEMORRHOIDECTOMY

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 Multi-Therapy Handpiece, LASEmaR® 1500 is applicable for photobiomodulation of wounds and ulcers, while through the fractional scanner LIGHTSCAN it can be used for surgical debridement.

HYPERHIDROSIS

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

ACCESSORIES



**HF RING FIBER**  
High Focused Ring Fiber with 360° emission, single use.



**INTRODUCTION KIT**  
Vein introduction kit complete of needle, dilator, j-tip guide wire, sterile. Disposable.



**SURGICAL HANDPIECE**  
For contact treatment, dermosurgery and general surgery.



**BARE FIBERS**  
Different calibres (from 100 to 1000 micron), lengths and tips (radial, ball, sphere, conic, flat) are available.  
1- sterile for single use and  
2- not sterile for multiple use



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



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



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



**LIGHTSCAN**  
Computerized fractional scanner. Energy, dots quantity and filling density are variable for customized settings.

OTHER ACCESSORIES

**CANNULAS** - Of different dimensions and calibres available upon request.

**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 and GOLD.



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	ISO 9001 ISO 13485 90/42/CEE CEI EN 60601-1 CEI EN 60601-2-22 CEI EN 60601-1-4 CEI EN 60625-1 CEI EN 60601-1-2
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.



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Before and after photographs used in this brochure are courtesy of L. Campanini MD, D. Cassuto MD, A. Crippa MD, R. Dell'Avanzato MD, L. Scrimmi MD, Z. Zgajardic MD, F. Ziri MD.



LASEmaR® 1500



THE MOST VERSATILE  
1470 NM LASER

LASER ASSISTED LIPOLYSIS | ENDOLIFT  
FRACTIONAL NON-ABLATIVE SKIN REJUVENATION | VASCULAR SURGERY  
GENERAL SURGERY | GYNECOLOGY | PROCTOLOGY | THERAPY

LASEmaR® 1500 for fractional rejuvenation, laser assisted lipolysis and vascular surgery.

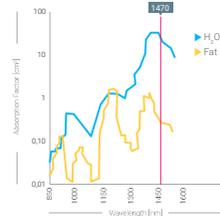


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## ▶ 1470 NM: THE WAVELENGTH GOLD STANDARD FOR WATER AND FAT

LASEmaR® 1500 is the ideal laser for aesthetic medicine, plastic surgery and endovenous phlebological 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. 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.
- ▶ **DPC - Dynamic 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.

## ▶ APPLICATIONS

### LASER ASSISTED LIPOLYSIS

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 elastic 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 Multi Therapy 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 kits for 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



### ENDOLIFT

Endolift is a new 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.

### CLOSED LOWER BLEPHAROPLASTY: Before - after



### CHIN: Before - after



### NECK: Before - after



### NECK: Before - after



### 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.

### 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
- ▶ pigmented and senile lesions
- ▶ acne scars
- ▶ skin firming and tightening procedures
- ▶ shrinking of 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.

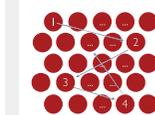
### LIGHTSCAN 1500

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.
- ▶ DPC - Dynamic Pulse Control, maximization of the concept of fractional non ablative photothermolysis.

### RANDOM PATH



### ▶ ACCESSORIES



### LIPOKIT WITH SUCTION

Available different handpieces with suction insert. Cannulas differ for their length and calibre.



### LIPOKIT WITHOUT SUCTION

Available different handpieces without suction insert. Cannulas differ for their length and calibre.



### CANNULAS

Of different dimensions and calibres available upon request.



### OPTICAL FIBERS

Different calibres (from 100 to 1000 micron) and radial fibers are available as well. For single and multiple use.



### LADYLIFT HANDPIECE

Different calibres (from 100 to 1000 micron), lengths and tips (radial, ball, sphere, conic, flat) are available. The handpiece is sterilisable.  
- Size: 165 mm  
- Weight: 115 g

### 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.

### GOOGLES FOR OPERATOR AND PATIENT