

Laser therapy



How does Laser therapy work?

Laser therapy physiologically works due to photochemical and photobiological effects on the cells and on the under-skin tissue. The laser light, with its transparent wave length, has the property of going through the surface of the skin without any important action. Therefore, the therapy treatment is very much appreciated by the patient at all times, who never perceives any unpleasant sensations: laser therapy is painless, riskless and the time dedicated to each treatment is less than the one employed for other therapies. The devices propose some pre-set protocols with the recommendable fluence rate for each type of treatment. The operator is free to adjust the treatment time or the frequency, according to the area to be treated and the power of the handpiece in use, in order to convey the fluence rate necessary for the treatment. These devices are provided with secret access code and security key (Interlock), as established by law.

Effects of the Laser

- **Anti-inflammatory effect.**
- **Effects on the peripheral nervous system** (antalgic and regenerative effect).
- **Biostimulating effect**, with regeneration of tissue.
- **Effect on micro circulation and blood vessels:** the laser induces improvement of local micro circulation, which includes the relief of local spasms of the arteriolar and venular vessels (which occurs, for example, after trauma or inflammation), and brings about intensification of the blood flow in the nutritional capillaries.
- **Immunomodulating effect.**
- **Enzyme photo activation effect.**
- **Placebo effect.**

Indications for using lasers

- Rheumatology
- Orthopedics
- Dermatology
- Dentistry
- Otolaryngology
- Neurology
- Laser acupuncture

SMART CARD TECHNOLOGY - EXTERNAL MEMORY



EL0001 PERSONAL SMART CARD

The smart card memory can be used with the Excellent and Plus lines. It's possible to save customized treatments based on specific setting of parameters. These therapies can be used for a specific user or a group of patients affected by same pathology. Set of 10 pieces.

ACCESSORIES

2

Laser Therapy handpieces overview

Twelve different handpieces are available. They are interchangeable and their difference is based on the number of diodes (1-8). The nominal power transmitted by each diode (25mW – 100mW) is up to a maximum of 800 mW for an area of up to 5 cm². Each handpiece not only has the afore mentioned diodes for therapy emissions (905nm), they also guarantee a perfect pointing of the therapy by the presence of a guiding light generated by other two pointing diodes which generate a visible red light. The laser handpieces have the possibility of automatic emission to approach the part to be treated or a continuous mode. In this case a support arm may be a useful accessory.



EL0028 1 DIODE HANDPIECE - 25MW
EL0029 1 DIODE HANDPIECE - 50MW
EL0030 1 DIODE HANDPIECE - 100MW



EL0031 3 DIODE HANDPIECE - 75MW
EL0032 3 DIODE HANDPIECE - 150MW
EL0033 3 DIODE HANDPIECE - 300MW



EL0034 5 DIODE HANDPIECE - 125MW
EL0035 5 DIODE HANDPIECE - 250MW
EL0036 5 DIODE HANDPIECE - 500MW



EL0037 8 DIODE HANDPIECE - 200MW
EL0038 8 DIODE HANDPIECE - 400MW
EL0039 8 DIODE HANDPIECE - 800MW



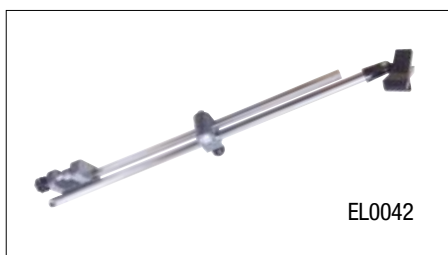
1-diode handpiece



3-diode handpiece



5- or 8-diode handpiece



EL0040 LASER ARM
 Arm for 1 diode handpiece with possibility of fixing to trolley. (cod. EL12003).

EL0041 LASER ARM
 Arm for 3-5-8 diodes handpieces with possibility of fixing to trolley. (cod. EL12003).

EL0042 L1 ARM
 Pantograph arm for 1 diode handpiece. Free fixing.

EL0043 L3-5-8 ARM
 Pantograph arm for 3-5-8 diodes handpieces. Free fixing.



EL12003 TROLLEY
 Trolley with tabletop and possibility of fixing non wheeled electromedical equipment and the arms.



EL0016 CARRY CASE
 Universal carry case for transport of portable unit.



02098 LASER PROTECTIVE GOGGLES
 Lens color green, VLT 45%.

Low Level Laser therapy

EL12061 FISIOLASER IRD

Laser therapy equipment with 1 output.
Automatic treatment time setting according to the energy to be provided and the area selected.
Smart card included. Laser wavelength 905 nm.



PLUS



CE 0476

TECHNICAL FEATURES

Mains voltage:	230 Vac, 50-60Hz, $\pm 10\%$ 115 Vac, 50-60Hz, $\pm 10\%$ on request
Max. Power absorption:	15 VA
Interlock socket/Safety key:	3 contact DIN socket
Backlit LCD Display:	graphic b/w 320 x 240 pixel
Programmable treatment time:	up to 99 minutes
Diode Laser wave length emission:	905 nm
Laser classification EN 60825-1:	3B
Device class 93/42/CEE directive:	II B
Electrical insulation UNI EN 60601-1:	I / BF
Degree of protection by the liquid access UNI EN 60601-1:	IPX0
Programmable pulse frequency:	(200-10.000) Hz
Pulse duration:	100 nsec
Peak power for single diode:	25 mW
	50 mW
	100 mW
	500 mW

TARGET POINTING DEVICE CHARACTERISTICS:

Target pointing device characteristics:	Target pointing device UNI EN 60601-2-22	2 light-drive
	Light-drive device	Led-diode
	Light-drive color	Red
	Light-drive representation on the impact point	Spot with red as colour
	Laser-beam positioning:	Always to the centre of the symmetry axis of 2 red spots
Typology for emission of the treatment:	Manual emission	
	Automatic emission	
	Continuous emission	
Output channels:	1	
Stored protocols:	79	
Storable protocols:	50	
External size:	39x13x32 (probe holders excluded)	
Weight:	4.30 Kg	

Standard Accessories

	Q.TY
Mains power supply cable	1
Fuses	2
Manual of therapies	1
MLA1 Laser probe 25mW	1
Safety laser goggles	2
Interlock connector	1
Smart-card	1

Optional Accessories

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- EL0041 LASER ARM
- EL0042 L1 ARM
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- EL0016 CARRY CASE
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- 02098 LASER PROTECTIVE GOGGLES

