

# High Level Laser therapy

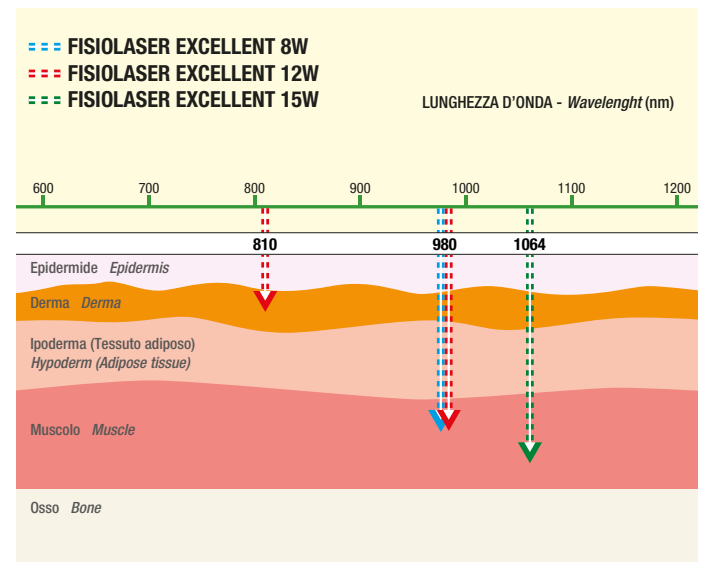
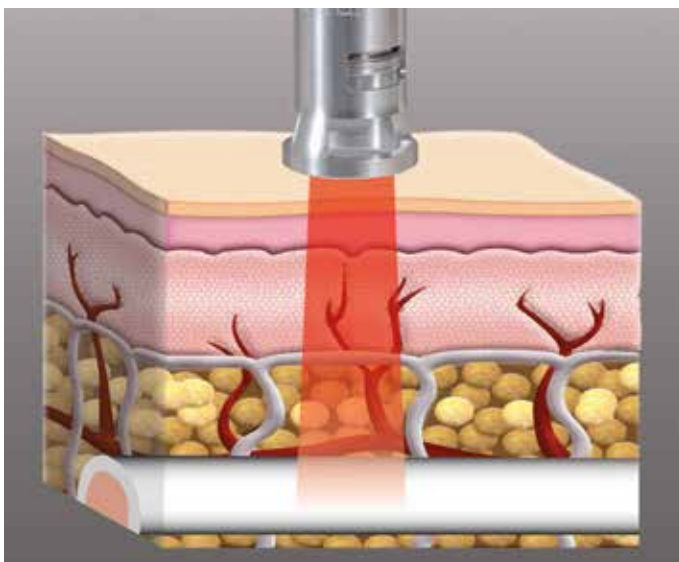


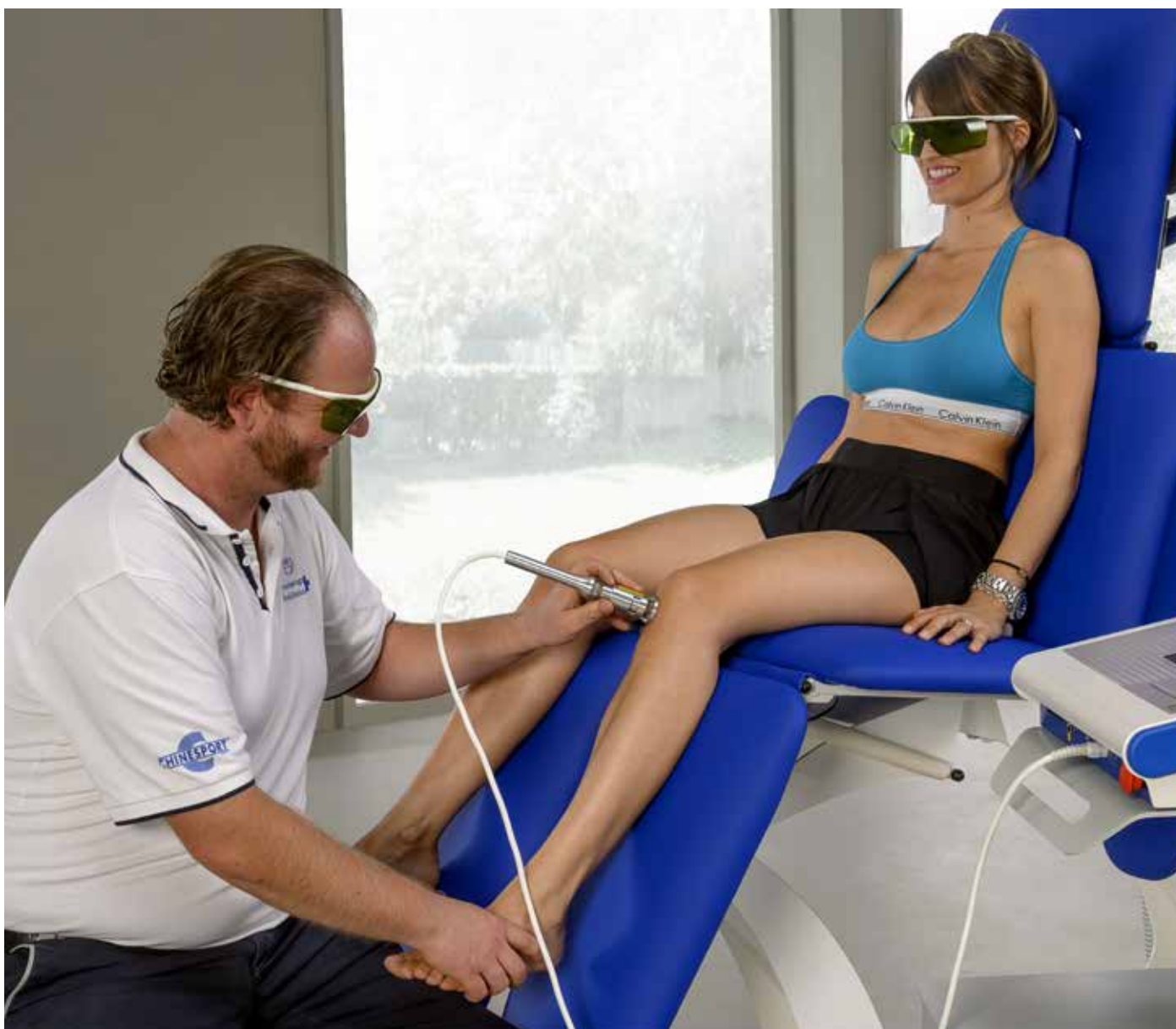
## The advantages of high power laser therapy

The applications of the FISIOLASER EXCELLENT 8W, 12W and 15W produce many positive effects on the treated tissues: Increase in hematic flow: vasodilatation of capillaries and arteries; Biostimulation: tissue rigeneration, stimulation of the protein synthesis, stimulation of the production of ATP, stimulation of the fibroblast mitosis, increase in collagen and elastin; Anti-inflammatory effect; Anti-edematous effect, with stimulation of the lymphatic system; Antalgic effect: increase in the perception threshold of nerve endings

Wave lengths between 810nm and 1064nm are absorbed differently by the underskin layers of the human body and these are the ones that general clinical

experience gives the best results in the therapeutical field, when treating pain and inflammatory pathologies of the muscles, tendons and bones. Thanks to the high power proposed versions, clear results can be obtained after few sessions by stimulating deep layers of the tissue favouring a quick and spread regeneration of the cells. It is possible to achieve a stimulus of the deep layers of tissue, and this allows the treatment of the tissue and innermost structures (as for example the femur articulation) and other chonical pathologies as arthritis. This type of treatment with high power is very recommendable as it is often a solution when dealing with serious swellings, chonical and degenerative as for example knee arthritis.





## Indications and applications fields

The applications fields that can profit from using the High power laser therapy are the following:

- **Sports traumatology:** Extensions and muscular strains, Articular distorsions, Epicondylitis, Tendinitis and enthesitis, Contusions, Hematomas bruises, Bursitis
- **General medicine and dermatology:** Decubitus ulcers, cheloids, torpid sores for its well known bio.stimulating and anti-infectious effects.
- **Arthro-rheumatic pathology:** Arthrosis, Sciatica, Scapular and humeral peri-arthritis, Arthropathy of hands and feet, Epicondylitis, Hip arthrosis at its initial stage, gonalgia with or without effusion, Myogenic stiff neck, Lumbago, Myositis, etc
- **Rehabilitative therapy:** Articular motor rehabilitation after removing plaster apparatuses or after orthopaedic surgical operations.

# High Level Laser *therapy*

## EL12086 FISIOLASER EXCELLENT 8W

High power laser working with a single wave length of 940nm. With its peak power is possible to supply up to 8W making sure a therapeutic action as an impressive regenerative stimulation in chronic pathologies, in the acceleration of the inflammation resolution and of the edema in acute pathologies as well as the rapid resolution of painful articular, muscular, neurogenal and soft tissue syndromes.



### TECHNICAL DATA

Mains power supply	230 Vac, 50-60Hz, ±10%
	115 Vac, 50-60Hz, ±10% (on request)
Maximum mains power absorption	80 VA
Interlock key	3-pole contacts
Max power	8W ± 20%
LCD display	6" colour touch screen
Wavelength	980 nm
Laser risk classification EN60825-1	4
Emission frequency	100 Hz ÷ 10000 Hz
Selectable percentage of emitted power	10% - 100%
Medical device class according to EU regulations	IIB
Output channels	1
Programmable treatment	1-99 min
Pre-installed protocols	available
Storable patient procedures on internal memory	200
Storable patient treatment procedures on smart-card	200
Dimensions	39 x 13 x 32 cm
Weight	5 kg

### STANDARD ACCESSORIES

	EL12086
Laser goggles	2
Interlock key	1
Distributor pedal	1
Smart Card	1



### OPTIONAL ACCESSORIES

EL0001	PERSONAL SMART CARD
EL0016	CARRY CASE
EL0191	WOK TROLLEY
02098	LASER PROTECTIVE GOGGLES



## EL17087 FISIOLASER EXCELLENT 12W

High power (12W) fibre optic laser therapy equipment. It's a laser system with two wave lengths (810nm + 980nm), providing max power output of 12W, in continuous and pulsed modes. 808nm wave length has a great penetration in tissues. 980nm wave length with its good level of water absorption, produce a good local antalgic effect.

## EL17089 FISIOLASER EXCELLENT 15W

High power laser therapy device. Works with a wavelength of 1064 nm with a power up to 15W. It's capable to transfer higher energy in the deep tissue reducing the time of functional recovery.



### TECHNICAL DATA

Mains power supply		230 Vac, 50-60Hz, ±10%
		115 Vac, 50-60Hz, ±10% (on request)
Maximum mains power absorption		105 VA
Interlock key		3-pole contacts
Max power	Fisiolaser 12W	12W ± 20%
	Fisiolaser 15W	15W ± 20%
LCD display		8" colour touch screen
Wavelength	Fisiolaser 12W	808 nm + 980 nm
	Fisiolaser 15W	1064 nm
Laser risk classification EN60825-1		4
Emission frequency		100 Hz ÷ 10000 Hz
Selectable percentage of emitted power		10% - 100%
Medical device class according to EU regulations		IIB
Output channels		1
Programmable treatment		1-99 min
Pre-installed protocols		available
Storable patient procedures on internal memory		200
Storable patient treatment procedures on USB		4 Gb
Dimensions		39 x 13 x 32 cm
Weight		7.5 kg

### STANDARD ACCESSORIES

	EL17087	EL17089
Laser goggles	2	2
Interlock key	1	1
Distributor pedal	1	1



### OPTIONAL ACCESSORIES

EL0016	CARRY CASE
EL0191	WOK TROLLEY
02098	LASER PROTECTIVE GOGGLES