

# LA500

Laser therapy device equipped with a new probe that allows beam laser application directly to the treatment area.

With LA500 professional user can adjust output power (up to 500 mW) and therapy time (up to 30 minutes) according to the therapeutic needs of each patient.

LA 500 guarantees a fast intervention for the treatment of inflammatory and degenerative pathologies in orthopedic, neurologic and dermatologic area. Thanks to its high performance healing time is significantly reduced.



## KIT

- ✓ LA500
- ✓ Probe
- ✓ Belts for probe fastening
- ✓ Safety Glasses

**MEDICAL DEVICE CLASS IIa**  
LA500 is a medical device CE0476

## TECHNICAL FEATURES

- ✓ Power supply 230 Vac, 50-60 Hz,  $\pm 10\%$
- ✓ Maximum laser output 500 mW  $\pm 20\%$
- ✓ Adjustable laser power output 0%-100%
- ✓ Laser diode wavelength 810 nm
- ✓ Beam divergence angle 260 mrad
- ✓ Continuous output emission
- ✓ Fixed emission frequency
- ✓ Fixed width duration
- ✓ Continuous or pulse mode of operation
- ✓ Pointing red light
- ✓ Diode probe (with reserved connection)
- ✓ Adjustable therapy time 0-30 minutes
- ✓ Diameter of laser beam < 10mm

## MAIN TREATMENTS

- ✓ Polyarthritis
- ✓ Epicondylitis/Epitrochleitis
- ✓ Knee pain
- ✓ Myositis
- ✓ Oedema
- ✓ Sciatalgy/Lumbago
- ✓ Articular sprains
- ✓ Chronic Tenosynovitis
- ✓ Muscle strains
- ✓ Overcharge pathologies
- ✓ Ecchymosis
- ✓ Bursitis
- ✓ Degenerative arthritis
- ✓ Adhesive capsulitis
- ✓ Arthrosis pains
- ✓ Post-traumatic disorders
- ✓ Scars
- ✓ Rheumatic diseases

## DIMENSIONS

300 x 150 x 120 mm

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## HOW DOES IT WORK

The acronym Laser stands for Light Amplification by Stimulated Emission of Radiation.

The laser therapy uses the effects of energy produced by the light source penetration into the tissues. Biochemical reactions are activated across the cellular membrane. It has been observed that right doses of Laser light can stimulate cellular functions, in particular into the cells damaged by functional deficits.

The main effects of Laser therapy are:

- ✓ Improved blood flow: capillary and artery vasodilatation that results in local heat increase
- ✓ Biostimulation: accelerated tissues repair, stimulation of protein synthesis, ADP production, electrolyte changes in the intraand extra-cellular fluids and mitosis of fibroblasts, increase of collagen and elastin
- ✓ Anti-inflammatory effect
- ✓ Anti-oedema effect: lymphatic drainage stimulation
- ✓ Analgesic effect

LA500 is able to stimulate deep tissues by promoting a rapid cellular regeneration thanks to 500 mW power output and 810 nm wavelength. Professional user can adjust power output, therapy time and operation mode (continuous or pulse).

LA500 is equipped with an innovative probe that includes the emitting diode and in this way the specificity of the treatment is always guaranteed.

## ACCESSORIES

- ✓ Trolley with 3 shelves and power sockets
- ✓ Probe