

Laser therapy



Duetto Spear line



easytech



Duetto/Spear line

Intervention area

Musculoskeletal system

Mode

Laser photostimulation

Effect

Photochemical, photomechanical and biothermal reactions for treatment purposes

Duetto, Spear 14 and Spear 25 are tools of power lasertherapy, designed for pain treatment and for photobiostimulation. They are the ultimate equipment to treat various diseases of the musculo skeletal system. The specific wavelengths and the several available parameters of emission make them particularly suitable for an effective interaction with biological tissues, as they activate photochemical, photomechanical and biothermal reactions.

The tools

The new tools for high-power laser therapy suggested by Easytech are eye-catching and of modern design, have a graphic display with touch screen, interactive treatment guidelines and a very compact size. For greater reliability all lasers are equipped with an automatic calibration device for continuous monitoring of the emission efficiency.

The display allows to visualize the following:
Duration of the treatment, Power, Delivered energy, Frequency, Duty cycle

To manually adjust the parameters:
Power, Time, Calibration

and to select among the pre-set mode menus of treatments.

Duetto

Diode power laser with dual wavelength 810 nm + 980 nm, 8 W

Wave at 810 nm:

high absorption and activation of the superficial biothermy resulting in a biostimulating effect.

Wave at 980 nm:

high penetration and biostimulation.

8 Watts power:

equally distributed between the two wavelengths to ensure maximum efficiency of the effect even in depth.

Simultaneous photostimulation
with a double effect:

At the surface on the pain receptors to foster a strong analgesic effect.

In depth to ensure an effective biostimulation of the tissues for therapeutic purposes.



Duetto/Spear line

high power

high in-depth efficiency

treatment rapidity

good tolerability

Spear line

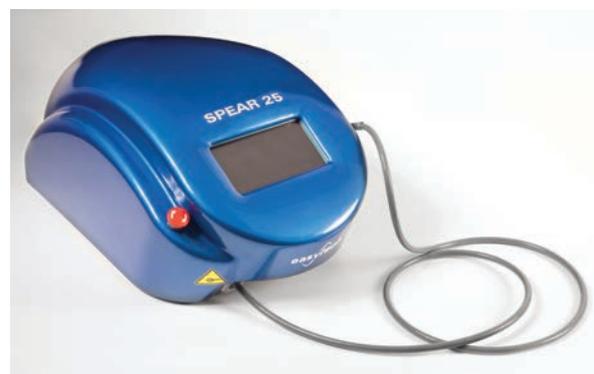
Spear 14 Laser NdYag 1064 nm, 14 W

Spear 25 Laser NdYag 1064 nm, 25 W

The high energy lasers for high performances. The 1064nm wavelength and the high energy available make these tools the therapeutic Lasers par excellence, able to ensure the maximum possible energy exchanges in depth. The emission at the edges of the therapeutic window guarantees the lowest possible absorption by the natural chromophores and therefore the highest penetration capacity. The high directionality of laser radiation at wavelength 1064 nm ensures the maximum energy interaction with the biological tissues.

At low power the NdYag laser reactivates the control mechanisms of the cartilage production and the biostimulation at cellular level.

At high power the laser accentuates an anti-edema and anti-inflammatory effect.



Duetto/Spear line



**Valentina Vezzali,
six times world champion.**

	Technical features	Duetto	Spear 14 - Spear 25
Classification according to Directive 93/42 CEE		Medical device class II b	Medical device class II b
Classification EN 60601-1		Class I applied part BF	Class I applied part BF
Monochromatic touch screen		130 x 72 mm	130 x 72 mm
high brightness			
Source type		Semiconductor	Semiconductor
Wavelength		810 nm, 980 nm	1064 nm
Power		8 W	14 W - 25 W depending on the model
Emission		Continuous and pulsed (freq: 0,50Hz, duty cycle: 0.100%)	Continuous or pulsed (freq: 0,50Hz, duty cycle: 0.100%)
Fiber type		Quarz/quarz	Quarz/quarz
Voltage		230 V, 50 Hz	230 V, 50 Hz
Absorbed power		100 VA	120 VA - 140 VA depending on the model
Classification		IV	IV
Overall dimensions and weight		27 x 47 x 20h cm, 8 kg	27 x 47 x 20h cm, 8 kg
Required environmental conditions		Room temperature: [+10, +40] °C Relative humidity (without moisture): [0, 75] % Atmospheric pressure: [700, 1060] mbar	Room temperature: [+10, +40] °C Relative humidity (without moisture): [0, 75] % Atmospheric pressure: [700, 1060] mbar
Retail configurations		Laser unit Control pedalboard Protection glasses (two pairs)	Laser unit Control pedalboard Protection glasses (two pairs)
Options		Trolley and carrying case	Trolley and carrying case Standard trolley for Spear 25
Standards		Duetto is compliant with Directive 93/42 CEE	Spear Line is compliant with Directive 93/42 CEE
		CE 0068	CE 0068



Back to motion

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QUALITY SYSTEM
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= ISO 13485 =