SCANNING LASER

PR999



EME® ITALY physio

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PR999

Automatic treatment for musculoskeletal pathologies

EME's PR999 range offers advanced solutions for laser therapy, featuring an automatic scanning system that allows for the treatment of large body surfaces without manual intervention.

This device guarantees excellent results in both acute and chronic phases of rehabilitation, thanks to its ability to customize parameters and protocols based on therapeutic needs.

The devices deliver treatments in both "scanning" mode and "manual" mode, through the use of mono and multi-diode laser handpieces.

MAIN FEATURES

- **Automatic vertical and horizontal scanner** for uniform treatment of extended areas
- **5.7" graphic LCD display** for intuitive parameter management
- **34 integrated therapeutic protocols, 200 customizable**

OPTIONAL ACCESSORIES

HANDPIECES
100, 300 and 500 mW



THERAPEUTIC ADVANTAGES

- **Biostimulating** and **regenerative effect**
- **Antalgic effect** (immediate and lasting)
- **Reduction of inflammation** and **edema**
- **Stimulation of microcirculation** and **lymphatic drainage**
- **Applicable in osteoarthritis, muscle injuries, tendinopathies, sprains, joint pathologies**

2 AVAILABLE MODELS

- **PR999 4W** power and dual wavelength 808 and 940 nm
- **PR999 8W** power and 980 nm wavelength



PR999

TECHNICAL FEATURES		
Mains Power Supply		230 Vac, 50-60 Hz, ±10%
Maximum power consumption from the mains	**4W**	75 VA
	8W	75 VA
Double mains protection fuse (T)	**4W**	1.6 A-T for 230Vac power supplies
	8W	
Socket for Interlock / Safety Key (normally closed contacts)		3-Pin DIN Socket
Backlit LCD display, for viewing and controlling operating parameters		320 x 240 pixel graphic display, B/W
Programmable treatment time		up to 99 minutes
Laser Diode Emission Wavelength	**4W**	808 nm + 940 nm
	8W	980 nm
Laser risk classification according to EN 60825-1	**4W**	4
	8W	4
Device class according to Directive 93/42/EEC		II B
Electrical insulation class / applied parts according to standard UNI EN 60601-1		I / BF
Degree of protection against ingress of liquids ccording to standard UNI EN 60601-1		IPX0
Programmable pulse frequency		(200 ÷ 10.000) Hz
Scan amplitude X dimension at Z distance of approximately 45cm		(1 ÷ 20) cm
Scan amplitude Y dimension at Z distance of approximately 45cm		(1 ÷ 20) cm
Laser head Z distance		45 cm circa
Area at Z distance of approximately 45cm		(1 ÷ 400) cm^2
Scan speed X		Adjustable in 5 steps
Scan speed Y		Adjustable in 5 steps
Divergence	**4W**	32°
Numerical Aperture	**8W**	0.22
Number of diodes on board the machine	**4W**	2 x 2 W
	8W	1 x 8 W
DNRO (direct light)	**4W**	10.5 m for 808 nm wavelength
		7.75 m for 940 nm wavelength
	8W	2,044 m
Power at the source @ 200 Hz	**4W**	80 mW
	8W	160 mW
Power at the source @ 10000 Hz (+/- 20%)	**4W**	4000mW
	8W	8000mW

THE TABLE CONTINUES ⟶

TECHNICAL FEATURES			
Power delivered to the tissue @ 200 Hz		**4W**	64mW
		8W	128mW
Power delivered to the tissue @ 10000 Hz (+/- 20%)		**4W**	3200mW
		8W	6400mW
OD (Optical Density)		**4W**	3.5 for 808 nm wavelength (0.1 m distance)
			3.3 for 940 nm wavelength (0.1 m distance)
		8W	2.6 (0.1 m distance)
MPE (CW)		**4W**	16.4 W/m^2 for 808 nm wavelength
			30.2 W/m^2 for 940 nm wavelength
		8W	36.3 W/m^2
Type of treatment delivery			Pulsed Emission
			Continuous Emission (100% duty-cycle, max frequency)
Independent output channels			2
Pointer			Solid-state laser, 3mW 650nm
Sensor for detection of IR radiation from the external handpiece (optional)			on the front panel
Storable therapeutic suggestions			200
Aiming Device Characteristics	**Handpiece target aiming device according to standard UNI EN 60601-2-22**		With two guide lights
	Guide light device		LED diode
	Guide light color		red
	Representation of the guide light on the impact point		Red spot
	Laser beam positioning		always at the center of the axis of symmetry of the two red spots
Wheeled enclosure, external dimensions (W x H x D)			39 x H168 x 92cm
Device weight			35 Kg
Operating Conditions		**Ambient Temperature**	(+10 ÷ +40) °C
		Relative Humidity	(10 ÷ 80) % non-condensed
Storage / Transport Conditions		**Ambient Temperature**	(-40 ÷ +70) °C
		Relative Humidity	(10 ÷ 100) % non-condensed
		Atmospheric Pressure	(500 ÷ 1060) hPa

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