

Neurolas



NEUROLAS

The CO₂ laser for neurophysiology

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Neurolas is a CO₂ laser system used in neurophysiology for studying evoked potentials.

The stimulus generated by **Neurolas** excites the thermal-mechanical nociceptors provoking cerebral potentials and in this way allowing to detect the dysfunctions in the behaviour of the afferent fibres.

Neurolas offers the chance to adjust the amplitude and/or the duration of the stimulus as well as varying the energy density of the laser emission in an ongoing manner by acting on the stimulation area. Other advantages of this laser include the high repeatability of the impulses, the totally negligible trigger-pulse latency time (less than 20 μ s).

Neurolas can be interfaced with any type of electromyographs. All operating and safety parameters are controlled by a microprocessor.

APPLICATIONS

neurophysiology

Neurolas

laser type	CO ₂
wavelength	10.6 μ m
emission	pulsed (electronic switch)
peak power	15 W (max)
energy	750 mJ
pulse duration	from 5 ms to 50 ms (step 5 ms)
spot diameter	up to 8 mm
transmission system	articulated arm
pilot beam	diode laser 3 mW @ 635-670 nm
supply	220 Vac / 2 A max / 50-60 Hz
dimensions	76 cm (L) x 28 cm (W) x 14 cm (H) (without trolley)
weight	60 kg

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