



# LASS-Expert



Laser shower with 21 high performance laser diodes for application on larger surfaces



Convertible into a laser comb with one click (optional comb and point adapter)



## Effective laser therapy with laser shower

The therapeutic laser shower LASS-Expert is used for application on larger surfaces (e. g., in trauma, arthropathy, hypertonia of large muscles and dermatology). It works with 21 laser diodes (2.100 mW Power output max.) and offers continuous output, alpha, Nogier, Bahr, Reiningger and multifrequency or freely selectable frequencies (software extension optionally available). The infrared diode laser with a wavelength of 808 nm provides the best values of penetration depth and biostimulation efficiency according to latest scientific conclusions.

### Technical data

Protection class	II SELV (IEC 60601-1)
Laser class	3B
Laser type	Semiconductor laser 808 nm
Power connection	100 – 240 VAC (external power supply)
Power supply	DC 12 V, <1.1 A (included AC adapter with protection class II acc. to EN 60601-1, In: AC 110 – 240 V, 50-60 Hz, 350-150 mA; Out: DC 12V, 1.25 A)
Power output max.	21 x 100 mW ±10 % (CW)
Dimensions (W x H x D)	105 x 47 x 310 mm
Weight	483 g (without AC adapter)

### Special features

Total diode output 2.100 mW (21 x 100 mW) – 808 nm – best values for penetration depth and biostimulation

Continuous power output, CW, multi-frequency, Alpha, Nogier, Bahr, Reiningger, Solfeggio, special frequency, FI bands and sweeps (autorun)

Software extension optionally available with Solfeggio frequencies, FI bands, sweeps and Cranio program

20 memory locations for freely programmable frequencies (1 to 9,999 Hz)

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High laser density on 55 cm<sup>2</sup> treatment area

Laser parameters, laser output, operating mode, adjustable therapy duration and dosing

Interchangeable adapter – convertible with one click (optional comb and point adapter)

### General features

Fastest therapy start

Selected setting indicated by a 4-color display with excellent contrast strength

With carry case for mobile use

Precision software

9 preset frequency rows

Optional LASS-Expert tripod

Unrestricted mobility due to direct mains connection (100 – 240 V ~)

Perfect handling - top of the range convenience for professional use

### Standard accessories

1 plexi holder

1 shower adapter

1 operating instructions

1 device case

1 laser protection glasses therapist (also for spectacle wearers)

1 laser protection glasses patient (Softcaps)

1 pocket guide Laser frequencies

1 power supply unit 230 V



# Laser therapy

Laser therapy is used in various therapy fields. In contrast to hard lasers used in surgery (30 W and higher), laser therapists work with the athermal, therapeutic, low level laser. As for physical therapy, the infrared diode laser is now the common means of treatment. This laser excels over other types of lasers in penetration depth, bio-stimulative effect and ease of handling. The assignment of laser therapy to light therapy is based on its various complex photobiological effects. These effects can be summarised as follows:

- » Enhanced cellular energy balance
- » Antiphlogistic effect
- » Antiedematous effect
- » Microcirculatory effect
- » Tissue reparative effect
- » Analgetic effect

The LASS-Expert laser shower is used for applications on larger surfaces. For indications, such as trauma injuries, arthropathy, or dermatological indications, the laser shower can be moved easily over the treatment area thanks to its ergonomic design. Optionally, a tripod is provided, which ensures secure positioning for extended treatment periods. This means that the therapist has free hands, while the patient can benefit from a lengthier treatment with the laser shower. The supplemental interchangeable adapter allow for additional treatments. The comb insert is suitable for treating hair-covered body parts, in particular the scalp. An additional point adapter is available for the treatment of tender and trigger points, paraspinal points, etc.

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