



3rd EDITION

# PHYSIOSON-Expert

Professional ultrasound therapy for clinics, rehabilitation centers and physiotherapy practices, also for mobile use.



Carry bag



Large treatment head

With the ultra-modern and mobile PHYSIOSON-Expert (3rd edition) ultrasound device, you can start your treatment as quickly and easily as possible: directly, via preset treatment protocols or self-stored programs. The large TFT display with a touchscreen, combined with the haptic intensity control, offers intuitive user guidance. You can always keep an eye on all treatment parameters on the large color screen. The device enables ultrasound therapy with 1 MHz and 3 MHz. A large and a small treatment head are available for treatment.

## Ultrasound therapy

Ultrasound therapy, together with stimulation current therapy, is one of the most common forms of treatment in physical therapy. Therapeutic ultrasound is applied at frequencies of 1 MHz or 3 MHz as continuous sound or pulsed sound in different pulse ratios. Due to its multilayered effects, ultrasound therapy is categorized as a mechano-thermal therapy. Depending on the therapy parameters (treatment frequency, type of sound, dose, treatment duration and cycle), ultrasound treatment focusses on a thermal effect (heat development at reflective boundary layers of the tissue, e.g. bones, joints) or a micro-massage in the treated tissue segment.

The effects of ultrasound therapy can be summarized as follows:

- Hyperemia
- Acceleration of metabolic functions (microcirculation, diffusion processes)
- Increased extensibility of connective tissue structures (collagen fibers)
- Pain relief
- Muscular detonation and spasm relief
- Acceleration of healing processes
- Stimulation of fracture healing

As ultrasound is reflected by air, a coupling agent (ultrasound gel) or ultrasound under water (subaquatic) is used to optimize the transmission of sound waves from the ultrasound probe to the tissue.

## Technical Data

### General

Power supply	100 -240V AC; 1.5A; 50-60Hz
External power source	18V; 3.33A
Classification (EN60601-1)	Class 1; Type BF
Fuse	Internal T3.15A
Dimensions (HxWxD)	90 x 230 x 290 mm
Weight	1.3 kg

### Ultrasonic

Frequency	1.1 MHz $\pm 5\%$ and 3.4 MHz $\pm 5\%$
Max. Power output	1.5 W/cm <sup>2</sup> in CW; 3.0W/cm <sup>2</sup> pulsating
Treatment modes	CW and pulsating 1:1, 1:2, 1:3, 1:4 and 1:9
Pulse duration	2ms
Duration of treatment	0-30 min.

## Features

- Mobile device
- Mains power supply by default; can be optionally operated with a portable charger (power bank)
- Ultrasound treatment with two frequencies: 1 MHz and 3 MHz
- Stainless ultrasound heads in two sizes
- Color touch screen
- Easily wipeable screen to reduce the risk of cross-infections
- Preset treatment protocols
- Programmable memory

## Standard accessories

- Large treatment head, dual-frequency 1MHz and 3 MHz
- 50 ml Contact gel for ultrasound
- Power supply unit, 18V 60W

## Available accessories

- Large treatment head 1/3 MHz (ERA 4cm<sup>2</sup>; BNR<5)
- Small treatment head 1/3 MHz
- (ERA 0.6cm<sup>2</sup>@1MHz/0.4cm<sup>2</sup>@3MHz; BNR<5)
- Carry bag
- Device trolley
- Powerbank

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