

# I-TECHUT<sup>2</sup>

PROFESSIONAL ULTRASOUND THERAPY

High tech professional ultrasound 1/3 MHz equipped with two ultrasound heads (5 cm<sup>2</sup> and 1 cm<sup>2</sup> area). The two ultrasound heads allow treatments of different size areas. I-TECH UT<sup>2</sup> is a device that easily meets patient therapeutic needs.



PROFESSIONAL  
THERAPY



**I-TECH**  
MEDICAL DIVISION

# I-TECH<sup>2</sup> Professional ultrasound therapy

## MAIN TECHNICAL FEATURES

- Power supply input 100V-240V, 47Hz- 63Hz, 1.35A, output 15V 3A Max.
- Ultrasound frequency 1 MHz  $\pm$  10% and 3 MHz  $\pm$ 10%
- Output power 0.5 W – 10 W  $\pm$  20% when duty cycle  $\geq$  80% for 5 cm<sup>2</sup> ultrasound head  
0.5 W – 15 W  $\pm$  20% when duty cycle  $\leq$  70% for 5 cm<sup>2</sup> ultrasound head  
0.1 W – 2 W  $\pm$  20% when duty cycle  $\geq$  80% for 1 cm<sup>2</sup> ultrasound head  
0.1 W – 3 W  $\pm$  20% when duty cycle  $\leq$  70% for 1 cm<sup>2</sup> ultrasound head
- Effective intensity 3 W/cm<sup>2</sup>  $\pm$  20% (1 MHz) 3 W/cm<sup>2</sup>  $\pm$  20% (3 MHz)
- Working frequency 100 Hz
- Duty cycle 10%-100% stepping 10%
- Maximum adjustable therapy time 30 minutes
- Effective radiating area 5 cm<sup>2</sup>  $\pm$  20%; 1 cm<sup>2</sup>  $\pm$  20%
- Collimated beam type
- Ultrasound head (material) aluminum
- Direct contact and water immersion use
- Led indicator for ultrasound head detector
- Medical device CE0476
- Dimensions 350 mm x 186 mm x 86 mm

## MAIN TREATMENTS

- Tendinitis
- Bursitis
- Capsulitis
- Hematomas and tissues reconstructions
- Muscle contractures
- Cramps
- Neuralgias
- Periarthritis
- Cervicalgias
- Sciatalgy/Lumbalgy
- Carpal tunnel syndrome
- Epicondylitis/epitrocleitis
- Contusions
- Sprains
- Condriopathy
- Massage
- Arms/abdomen/legs/gluteus cavitation
- Acne

Over the last thirty years ultrasound therapy has been used efficiently to treat many pain conditions.

Recently it is used successfully also in the aesthetic treatments.

Ultrasound waves cross through anatomic structures provoking different biological effects:

- **Thermal:** energy to heat conversion increases significantly local temperature, in particular between tissues with different acoustic impedance (for example bone/soft tissues), and increases microcirculation.
- **Mechanical/chemical:** pressure variations provoke fluids movement and an increase of cell membranes permeability.
- **Cavitation:** ultrasound waves are able to produce vapor bubbles that implode. As a consequence the delivered energy disintegrates adipose cells.

**I-TECH UT<sup>2</sup>** is a professional ultrasound device equipped with 2 handles respectively with 5 cm<sup>2</sup> and 1 cm<sup>2</sup> head. Thanks to its equipment and parameters setting **I-TECH UT<sup>2</sup>** is a high performing device particularly indicated for professional user.

**I-TECH UT<sup>2</sup>** is provided with 10 preadjusted programs and professional user can modify, and memorize, the following parameters:

- Frequency (1 MHz or 3 MHz)
- Effective intensity (up to 3 W/cm<sup>2</sup>)
- Duty cycle (10%÷100% stepping 10)
- Therapy time (up to 30 minutes)

## KIT

- **I-TECH UT<sup>2</sup>** device
- 2 ultrasound heads: 5 cm<sup>2</sup> and 1 cm<sup>2</sup>
- Medical power supply
- Gel for ultrasound therapy
- User manual

## ACCESSORIES

- Trolley with 3 shelves and power sockets
- Adjustable arm
- Support for ultrasound head



The present document and its contents are reserved exclusively to medical personnel.



Handle with 5 cm<sup>2</sup> ultrasound head



Handle with 1 cm<sup>2</sup> ultrasound head

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