

# INSTRUMENT FOR ULTRASOUND THERAPY

## Mod. UTST/EV

### INTRODUCTION

The application of the most advanced technologies enables to use more and more updated equipment and integrated functions. This technology comes from the most recent systems used by personal computers and includes the possibility of updating equipment's functions and programs by using a smart card.

The equipment has an operating frequency of 1 – 3 MHz.

#### Main characteristics:

- The equipment prevents the operator from ultrasounds and energy exposure
- The equipment is lightweight, ergonomic and user-friendly
- Power output is the maximum allowed by standard rules: 1 to 3 MHz
- Waterproof to be used both in air and underwater
- When in touch with the part of the body for treatment, the sensor gives off energy according to the specific requirements of that part and informs the operator of this energy output by means of a light indicator.
- The system automatically self-calibrates during the operation thus ensuring the best performance and saving time.

A graphic Liquid Crystal Display shows all necessary information, and a proper encoder enables a quick selection of current and of the protocol to be issued, and the access to a library of 50 programmes; furthermore, it enables the operator to create and store up to 50 different, simple or sequential treatment cycles.

#### Technical characteristics:

- Graphic TFT LCD of 6"
- Smart card with 64-Kbit memory
- Integrated serial command RS-232
- 16 bit microprocessor
- 1/3 MHz function
- 50 pre-set protocols
- 50 protocols for storing
- Contact sensors with light indicator
- Diameter of ultrasound-emitting device: 1 – 3 – 5 and 8 cm, frequency 2 1/3 MHz



- Continuous and alternating function modes
- Low BNR self-calibrating unit
- Water-resistant
- Insulation class: II type BF
- Risk class (93/42/EEC): II B
- Available outputs: 1
- Timer: 1-30 minutes
- Supply voltage: 230V 50/60 Hz / 110V 50/60Hz
- Absorbed power: 80 W
- Dimensions: 385 x 135 x 300 mm
- Weight: 4 kg

The instrument is connected externally with a box with test points (Ø 2 mm) which enable a simple and safe detecting procedure. This enables students to understand also the main functions of the circuit.

#### REQUIRED

- INSTRUMENTS - NOT INCLUDED -
- MULTIMETER
  - OSCILLOSCOPE