

## EL17056 SONIC 1

**1 output** ultrasound therapy device complete with 1-3 Mhz multifrequency handpiece. 320x240 display, treatment time up to 60 min, 200 storable protocols. Smart Card included.

The heads of our ultrasound equipment are equipped with a non-contact light indicator that allows you to check the correctness of the tissue-emitting head contact, and are also self-calibrating to avoid the need for calibration over time.

The devices of the SONIC series allow the delivery of ultrasounds in a continuous and pulsed way with different possibilities of adjusting the duty cycle; this greatly reduces the diathermic effect as the heat is dispersed in the interval between one pulse and another.

Furthermore, the pulsed emission offers the technical advantage of a less likely overheating of the transducer and allows the use of higher intensities.

Various scientific experiences have verified how the absorption of ultrasound energy significantly increases the extensibility of connective tissue with important applications in the treatment of scar tissue, superficial joint capsules and tendinitis.

### THERAPEUTIC EFFECTS

The therapeutic effects of ultrasound are partly due to the increase in temperature. They are represented by analgesia, muscle relaxation and the fibrolytic and trophic effect:

- **Analgesia** - The analgesic effect is due to the action of heat and probably also to a direct action of ultrasound on sensitive nerve endings.
- **Relaxation of contracted muscles** - The relaxation of contracted muscles is linked to the thermal effect and the action of micro tissue massage induced by the passage of ultrasound.
- **Fibrolytic action** - The oscillations of the tissue particles, produced by ultrasound, determine the disruption of the collagen fibers of the fibrous or sclerotic tissues.
- **Trophic effect** - Vasodilation, which follows thermal elevation, facilitates the removal of catabolites and delivers nutrients and oxygen to the tissues; in this way the ultrasounds improve the trophism of the tissues, facilitate the repair of tissue damage and accelerate the resolution of inflammatory processes.

Supplied accessories:

- 1 Handpiece 1-3 Mhz 5 cm<sup>2</sup>
- 1 Personal smart card



## Technical specifications and dimensions

|  |  |
|--|--|
| <b>Mains power supply :</b>                                      | 230 Vac, 50-60Hz, $\pm 10\%$ -<br>115 Vac, 50-60Hz, $\pm 10\%$ (on<br>request) |
| <b>Maximum power absorbed by the network :</b>                   | 65 VA  |
| <b>Backlit LCD display :</b>                                     | 320 x 240 pixel color<br>touchscreen and encoder                               |
| <b>Programmable treatment time :</b>                             | up to 60 minutes   |
| <b>Electrical insulation class UNI EN 60601-1<br/>standard :</b> | I / BF   |
| <b>Directive 93/42 / EEC classification :</b>                    | II B   |
| <b>Liquid protection degree UNI EN 60601-1<br/>standard :</b>    | IPX0   |
| <b>Emission frequency :</b>                                      | 1 MHz and 3 MHz $\pm 15\%$   |
| <b>Adjustable duty cycle :</b>                                   | 10% ÷ 100%   |
| <b>Continuous peak power :</b>                                   | 2 W / cm <sup>2</sup> $\pm 20\%$   |
| <b>Pulsed peak power :</b>                                       | 3 W / cm <sup>2</sup> $\pm 20\%$   |
| <b>Output channels :</b>   | 1  |
| <b>Stored protocols :</b>  | 63   |
| <b>Protocols that can be stored in the Smart<br/>Card :</b>      | 200  |
| <b>User memory storable protocols :</b>                          | 200  |
| <b>Dimensions :</b>  | 39 x 32 x 13 h cm  |
| <b>Weight :</b>  | 4.20 kg  |

## Documentation available online

|   |  |
|---|--|
| <b>Compliance statement</b> - Declaration of conformity<br>Italian, English |  .PDF 76.95 KB  |
| <b>Manual</b> - User manual<br>English                                      |  .PDF 932.49 KB |
| <b>Manual</b> - Manuale istruzioni<br>Italian                               |  .PDF 1.36 MB   |

 The document is ready for download in reserved area.

**Accessories**



**EL0001 PERSONAL SMART CARD**

10-pack to programme the patients' rehabilitation protocol, so as to facilitate and expedite the times of machine use.



**EL0016 CARRY CASE**

Carry case for the unit transport



**EL0017 HANDPIECE 1 CM<sup>2</sup>**

1-3 MHz cm, dual frequency, IP67 protection.



**EL0018 HANDPIECE 3 CM<sup>2</sup>**

1-3 MHz cm, double frequency. IP67 protection.



**EL0019 HANDPIECE 5 CM<sup>2</sup>**

1-3 MHz cm, double frequency. IP67 protection.



**EL0020 HANDPIECE 8 CM<sup>2</sup>**

1-3 MHz cm, double frequency. IP67 protection.



**EL0022 SONIC ARM P**

Swivel arm. Free mount.



**EL0023 CONTACT GEL**

Non-electroconductive gel, 250 g



**EL0024 GEL CANISTER**

Non-electroconductive gel, 5 l



**EL0025 DISPENSER-PUMP**

Pump for canister code EL0024.



**EL0082 LINK CABLE**

Cable to connect electrotherapy and ultrasound machines.



**EL0191 WOK TROLLEY**

Trolley with a support surface designed for use with Chinesport table top electro-medical devices. Compact and easy to handle on 4 casters.