



ULTRASONIC 1300 **US1321**
single channel desktop/portable ultrasound device,
equipped with 1/3 MHz probe



ULTRASONIC 1500 **US1322**
two independent channels desktop/portable ultra-
sound device, equipped with two 1/3 MHz probes

- ULTRASONIC 1300- 1500
- New Medical Italia design
- Waterproof multifrequencies probes 1/3 MHz, suitable for submerged treatments
- Possible connection to THERAPIC 7200/9200/9400 for combined usage
- Color display with Touch&scrool function
- Self-calibrating probes with working frequencies internal storage system
- Ultrasonic 1500 : two completely independent channels ultrasound device, able to perform two autonomous treatment at the same time.
- Smart Card

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ULTRASONIC



ULTRASONIC 2500
US1323

two independent channels ultrasound device on trolley, equipped with two 1/3 MHz probe and with one orthostatic arm.

ULTRASONIC

The ultrasounds are high-frequency acoustic vibrations not perceived by human ears. The application of ultrasounds for therapeutical use on human tissues involves a high-frequency cellular and intercellular massage. Moreover ultrasounds can also be used in immersion, the head is immersed in the water together with the body region to be treated. The tissues irradiated with ultrasounds start vibrating with a following energy waste and heat production. All this shows the ultrasounds' biological effects, namely the mechanical and the diathermic effect.

• **Mechanical effect:** expands through the rhythmic tissue compression and decompression. The tissue particles receiving the vibrating flux are all stressed one after the other at the same speed and acceleration rate.

Available models

ULTRASONIC 1300 – ULTRASONIC 1500
ULTRASONIC 2500

• **Diathermic mechanism:** probably with biological effects is becoming possible with watt/cm² energy flux. While the sound spreads through the tissues it is absorbed and converted into heat. The temperature distribution caused by the ultrasound in the tissues is unique within all forms of deep heating: the temperature increases relatively little in the tissue surface and it is more likely to penetrate into the muscles and the soft tissues compared to the diathermic effect produced with short waves or microwaves.

• **Chemical effect:** it is strictly connected to a typical phenomenon caused by ultrasounds, the so called "cavitation", which takes place in the fluid components of the tissues where the small gas bubbles tend to increase their dimension and starts the oxidation, polymerization and the destruction of macromolecules.

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ULTRASONIC 2500: DISTINCTIVE ELEMENTS

- New Medical Italia trolley design
- Waterproof multifrequencies probes 1/3 MHz, suitable for submerged treatments
- Possible connection to THERAPIC 7200/9200/9400 for combined usage
- Color display with Touch&scroll function
- Self-calibrating probes with working frequencies internal storage system
- **Ultrasonic 2500** has two completely independent channels ultrasound device, able to perform two autonomous treatment at the same time
- Equipped with one orthostatic arm
- Smart Card

SUPPLIED ACCESSORIES	ULTRASONIC 1300	ULTRASONIC 1500	ULTRASONIC 2500
Power cable	1	1	1
User Manual in DVD	1	1	1
Fuses	2 of 630mA-T	2 of 630mA-T	2 of 630mA-T
Probe 1/3 MHz, 5 cm ²	1	2	1
Orthostatic arm			1
Smart Card	1	1	1

ULTRASOUND THERAPY

ELECTRO - ULTRASOUND THERAPY



OPTIONAL ACCESSORIES

K-SOUND

ULTRASONIC

COMBIMED
200

COMBIMED
2200

US 50

		K-SOUND	ULTRASONIC	COMBIMED 200	COMBIMED 2200	US 50
ACC940	TV5 ultrasound probe 1 / 3 mhz, emitting area 5 cm ²		●		●	
ACC940/1	TV1 ultrasound probe 1 / 3 mhz, emitting area 1 cm ²		●		●	
ACC940/3	TV3 ultrasound probe 1 / 3 mhz, emitting area 3 cm ²		●		●	
ACC940/8	TV8 ultrasound probe 1 / 3 mhz, emitting area 8 cm ²		●		●	
ACC943	TV5 ultrasound probe 1 / 3 mhz, emitting area 5 cm ²	●		●		●
ACC943/1	TV1 ultrasound probe 1 / 3 mhz, emitting area 1 cm ²	●		●		●
ACC943/3	TV3 ultrasound probe 1 / 3 mhz, emitting area 3 cm ²	●		●		●
ACC943/8	TV8 ultrasound probe 1 / 3 mhz, emitting area 8 cm ²	●		●		●
ACC939/2	TV5 ultrasound probe 2 mhz, emitting area 5 cm ²	●				
ACC939/6	TV1 ultrasound probe 2 mhz, emitting area 1 cm ²	●				
ACC939/7	TV3 ultrasound probe 2 mhz, emitting area 3 cm ²	●				
ACC939/9	TV8 ultrasound probe 2 mhz, emitting area 8 cm ²	●				
ACC666/1	Ultrasound probe with integrated water bolus kit (gel holder)	●	●	●	●	●
ACC917	Gel 260 ml	●	●	●	●	●
ACC918	Gel 1000 ml	●	●	●	●	●
ACC919	Gel canister 5000 ml	●	●	●	●	●
ACC400/1	Conductive rubber electrode, 80 x 120 mm			●	●	
ACC403	Conductive rubber electrode, 60 x 85 mm			●	●	
ACC402	Conductive rubber electrode, 50 x 50 mm			●	●	
ACC401	Sponge electrode cover, 80 x 120 mm			●	●	
ACC003	Sponge electrode cover, 60 x 85 mm			●	●	
ACC001	Sponge electrode cover, 50 x 50 mm			●	●	
ACC28	Stretch bandage, 1000 x 50 mm			●	●	
ACC27	Stretch bandage, 600 x 50 mm			●	●	
ACC051	Probe for manual stimulation			●	●	
ACC430	Self-adhesive electrodes, 45 x 35 mm (4 pcs.)			●	●	
ACC432	Self-adhesive electrodes, 45 x 80 mm (4 pcs.)			●	●	
ACC431	Self-adhesive electrodes, 46 x 47 (4 pcs.)			●	●	
ACC433	Self-adhesive electrodes, 45 x 98 (4 pcs.)			●	●	
ACC436	Self-adhesive round electrodes, ø 32 mm (4 pcs.)			●	●	
ACC435	Self-adhesive round electrodes, ø 50 mm (4 pcs.)			●	●	
ACC434	Self-adhesive round electrodes, ø 75 mm (4 pcs.)			●	●	
ACC231	Kit of galvanic basins			●	●	
ACC624	Link cable for combined use of electrotherapy / ultrasound	●	●			●
ACC605 BO-U	Orthostatic arm	●	●	●	●	●
ACC606	Pack of 10 patient smart cards		●		●	
ACC601	Uro-gynaecology kit			●	●	
ACC603/8	2-channel electrotherapy output cable			●	●	
CONT72	Transport bag in tnt fabric	●	●	●	●	●
ACC604	3-shelf trolley	●	●	●	●	●
ACC1317/2/E	USB key	●				

ULTRASOUND TECHNICAL SPECIFICATIONS

MODELS	ULTRASONIC 1300	ULTRASONIC 1500 / 2500	US50	K-SOUND
Power supply	230 Vca, 50-60 Hz ± 10%	230 Vca, 50-60 Hz ± 10%	230 Vca, 50-60 Hz ± 10%	230 Vca, 50-60 Hz ± 10%
Maximum main power absorption	40 VA	70 VA	40 VA	40 VA
Fuses	2 x 630 mA-T	2 x 630 mA-T	2 x 630 mA-T	2 x 630 mA-T
Backlit LCD display to view and check the operating parameters	Graphic colour 320x240 Pixel Touch & Scroll	Graphic colour 320x240 Pixel Touch & Scroll	Graphic bw 240x128 Pixel	Graphic colour 8" Touch screen
Adjustable treatment time	1-30 minutes	1-30 minutes	1-30 minutes	1-30 minutes
Operation frequency	1/3 MHz	1/3 MHz	1/3 MHz	1-2-3 MHz
Isolation class	I BF Type	I BF Type	I BF Type	I BF Type
Risk class (93/42/CEE)	IIB	IIB	IIB	IIB
Degree of protection from liquids	IPX0	IPX0	IPX0	IPX0
Probe	IPX4	IPX4	IPX4	IPX4
Output channels	1	2 independent	1	2 independent
Peak power in continuous mode	2 W / cm ² ± 20%	2 W / cm ² ± 20%	2 W / cm ² ± 20%	2 W / cm ² ± 20%
Peak power in pulsed mode	3 W / cm ² ± 20%	3 W / cm ² ± 20%	3 W / cm ² ± 20%	3 W / cm ² ± 20%
Duty cycle	10% - 100%	10% - 100%	10% - 100%	10% - 100%
Stored protocols	100	100	50	100
Storable programs on the internal memory	200	200	50	250
Storable programs on the Smart Card	200	200		
Storable programs on the USB				4 Gb
Automatic contact sensor	•	•	•	•
Automatic probe recognition	•	•	•	•
Low BNR selfcalibrating probe	•	•	•	•
Water resistant probe	•	•	•	•
Possibility to update the software	•	•		•
External connection	•	•	•	•
Weight		3,6 Kg 2500 - 26 Kg	1500 - 4 Kg	3,6 Kg 3,6 Kg
Size	39 x 14 x 30 cm	1500 - 39 x 14 x 30 cm 2500 - 39 x 89 x 30 cm	39 x 14 x 30 cm	39 x 14 x 30 cm