

Chapter 5: Technical Specifications

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5.1 Technical Specifications

The following table outlines the technical specifications for the Digital Sonifier:

Controls and Display, Front Panel	4 digit numeric display with provisions to set mode (Continuous, Time, Time Pulse, Energy, Energy Pulse), operating parameters (Amplitude, Time On, Time Pulse, Joules), and perform an executable (Reset, Test, Enter, Start/Stop) on front panel membrane. On/Off rocker switch to turn on power to the unit.
Duty Cycle	Intermittent – pulse duration adjustable [0.1 seconds – 99hrs 59 mins.] or continuous processing time
Horn Frequency	40 kHz
Line Voltage	93 to 132 VAC @ 50/60 Hz (North American and Japan) 182 to 264 VAC @ 50/60 Hz (CE and non CE units available)
Max Output Power	150 Watts
Temperature (ambient)	Operating: 41°F (5°C) to 104°F (40°C). Storage and shipping: -20°F (-29°C) to 158°F (70°C)
Tuning	Factory set, no tuning necessary. No user-accessible adjustments.
AC Mains Fuse	8A. 250 V fast acting, 5 x 20 mm
Voltage/Current @ 150W	100-120VAC, 50/60 Hz, 2A; 200-240VAC, 1A

5.2 Physical Description

The following table outlines the physical characteristics of the Digital Sonifier.

Converter Weight with cable	1.1 lbs. (0.5kg)
Converter Length	5", (127mm)
Converter Diameter	1.5" (38mm)
Converter to Microtip Stud	M8 x 1.25
Horn Tip Diameters	0.091, 0.125 and 0.250 (2.3 – 6.4 mm), depending on process needs.
Overall Dimensions	12 1/2" L x 7 1/2" W x 9 1/4"H (318x191x235 mm) excluding RF out connector (5/8",16mm),
Power Supply Weight	150 Watt unit = 14 lbs, 10 oz. (6.5kg),