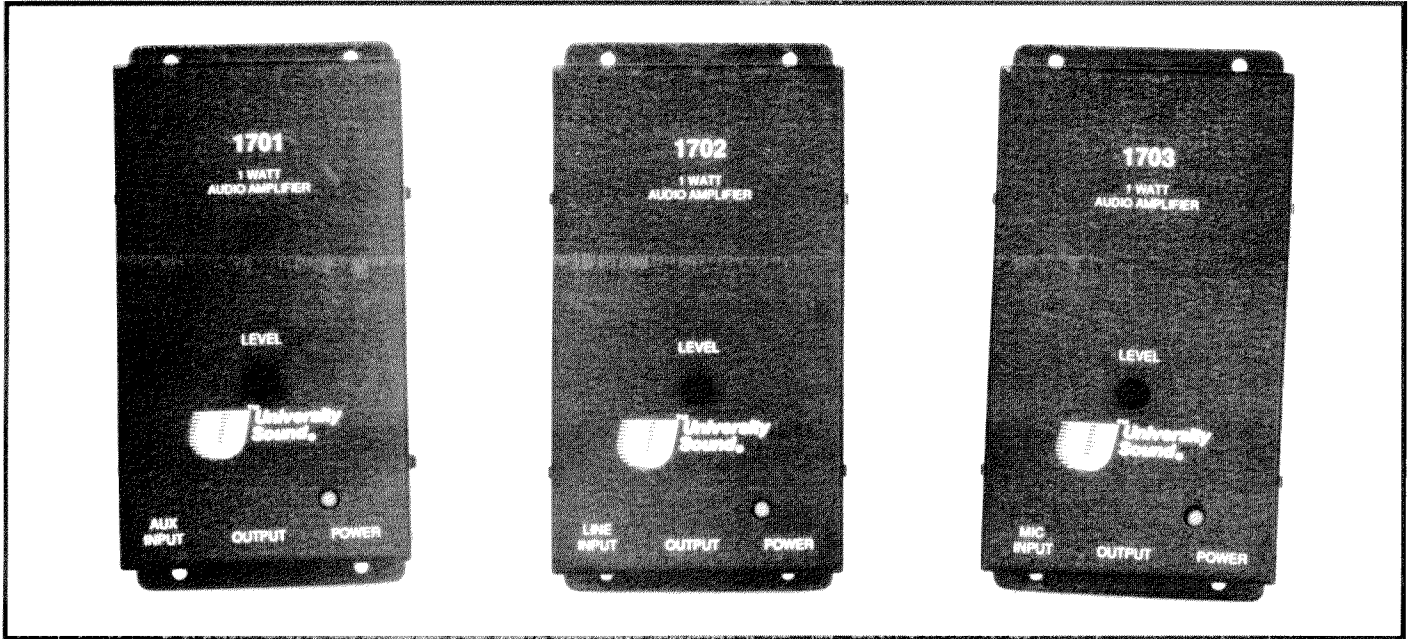




**University
Sound**
A Mark IV Company

1700 Series

Model 1701, 1702, 1703
**One Watt Utility
Amplifiers**



Product Data

- **Multi-purpose amplifiers suitable for headphone amplification, music-on-hold driving, and other low power applications**
- **Two outputs: 1 watt @ 8Ω and +4 dBm @ 500Ω**
- **Variety of input configurations —**
1701: Hi-Z (47KΩ) unbalanced
1702: 10KΩ transformer balanced
1703: Hi-Z microphone or Lo-Z balanced microphone
- **Level control**
- **Wall-mountable enclosure**

Specifications:

Output Power 1 Watt @ 8Ω

3 mW @ 500Ω

Frequency Response 30 Hz - 20 kHz, ±2 dB

Dimensions

Height 6.125" (156 mm)

Width 3" (76 mm)

Depth 1.25" (32 mm)

Shipping Weight 2 lbs. (0.9 kg)

Power Supply 12 VDC @ 300 mA

	1701	1702	1703
Inputs:			
Type	Aux	Line	Mic
Impedance	47KΩ	10KΩ	2KΩ (Lo-Z) 25KΩ (Hi-Z)
Sensitivity	50mV	50mV	0.5 mV (Lo-Z) 10 mV (Hi-Z)
S-to-N Ratio:	69 dB	69 dB	69 dB

Description

The University Sound 1700 Series are one Watt solid state audio amplifiers suitable for a variety of low-power applications. The only significant difference between the three models lies in their input configurations. The Model 1701 has a high impedance unbalanced input making it suitable for use with a tape deck, tuner, mixer, or other line level equipment. The Model 1702 has a 10K Ω transformer balanced input that allows many units to be wired in parallel to a 500 Ω /600 Ω telephone line. The Model 1703 has both a Hi-Z unbalanced microphone input and a Lo-Z balanced microphone input. Each of the models has the same output configuration: an 8 Ω 1 Watt output for direct speaker connections and a 500 Ω +4 dBm output for driving balanced phone lines. Both of the outputs can be loaded at

the same time without mismatch on either line. The units have a single control to set the output level of the amplifier.

The Model 1703 incorporates both a high pass filter and a low pass filter to contour the frequency response of the unit for maximum speech intelligibility. As supplied, the frequency response is -2 dB at 350 Hz and 7.5 kHz. Jumpers are provided on the circuit board which may be cut to exclude these filters.

All of the units are enclosed in a sturdy steel box with wall-mount flanges on two sides. Each is powered by a 120 VAC to 24 VDC power adaptor, included with the unit.

Architect's and Engineer's Specifications

The University Sound 1700 Series shall be comprised of three Models: the 1701, 1702, and 1703. The Models shall have identical output and physical specifications, but different input specifications. The Model 1701 shall have a high impedance (47K Ω) unbalanced input with a sensitivity of 50 mV. The Model 1702 shall have a transformer balanced input with an impedance of 10K Ω and a sensitivity of 50 mV. The Model 1703 shall have alternate inputs: one a balanced Lo-Z microphone input with a sensitivity of 0.5 mV, and the other an unbalanced Hi-Z micro-

phone input with a sensitivity of 10 mV. The output configuration of the three models shall be identical, and shall provide both an 8 Ω 1 Watt output and a 500 Ω +4 dBm output. The output circuitry shall be capable of handling a load on both outputs simultaneously without impedance mismatch. Each Model shall have one control: a Level knob that attenuates the level of the output. The enclosure shall be a steel box with punched side flanges for wall-mounting. The units shall be powered by a 120 VAC to 12 VDC adaptor, included with each unit.



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