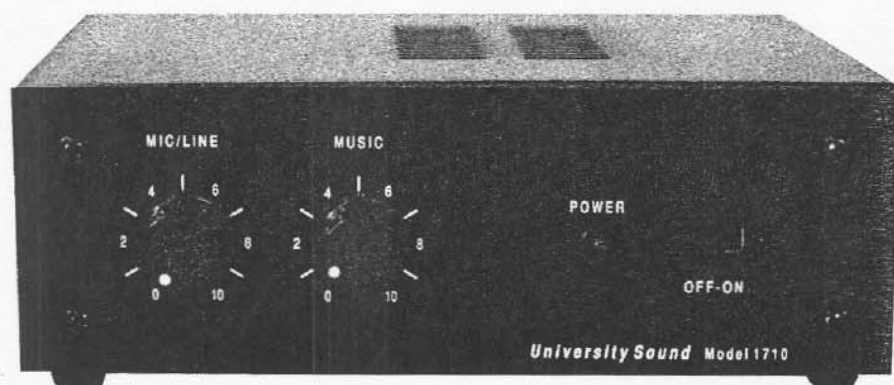




Model 1710

10 Watt Paging Amplifier



Product Data

- **Two inputs: MIC/LINE and MUSIC**
- **MIC/LINE input can match balanced Lo-Z or line level source**
- **10 Watts RMS power output**
- **4 Ohms, 8 Ohms, 25V, and 70.7V power outputs**
- **24 VDC phantom power on MIC/LINE input (defeatable)**
- **Automatic muting of MUSIC input (defeatable)**

Specifications:

Power Output 10 Watts RMS
T.H.D. <1%
 (1 kHz @ rated output)

Frequency Response 50 Hz - 15 kHz ± 2 dB

Tone Controls

Bass ± 10 dB @ 100 Hz
Treble ± 10 dB @ 10 kHz

Sensitivity

Mic 2.5 mV
Line 60 mV
Music 275 mV

Music Mute 35 dB

Dimensions

Height 3.0" (7.6 cm)
Width 8.25" (21.0 cm)
Depth 8.25" (21.0 cm)

Shipping Weight 6 lbs. (2.7 kg)

Net Weight 5 lbs. (2.3 kg)

Description

The Model 1710 is a 10 Watt solid state paging amplifier. It has provisions for mixing two inputs: a MIC/LINE input and a MUSIC input. The MIC/LINE input can match either a balanced Lo-Z microphone level or a balanced line level source, selectable via a switch on the rear panel. Connections to this input are made on screw terminals. This input is also capable of providing 24 VDC phantom power on the balanced input to power electret microphones by installing a jumper on the internal circuit board. The MUSIC input matches a standard unbalanced auxiliary level source, and uses a standard RCA phono jack connector. As shipped from the factory, the Model 1710 uses an automatic muting

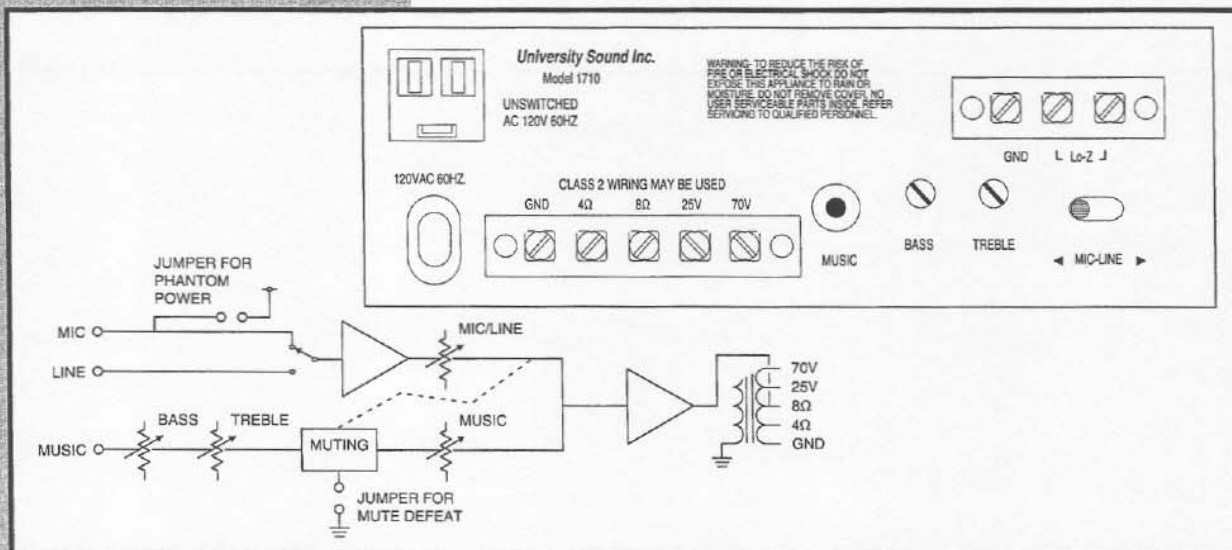
feature that mutes the MUSIC channel when a signal is detected on the MIC/LINE channel. This feature can be defeated, however, by installing a jumper on the internal circuit board. The separate BASS and TREBLE controls provided on the rear panel tailor the sound of the MUSIC input only. The front panel has level controls for both the MIC/LINE and MUSIC channels, red LED power-on indicator, and a slide switch for turning the power on and off. There are power outputs for 4 Ohm and 8 Ohm direct speaker coil connections, and for 25 Volt and 70.7 Volt constant-voltage speaker distribution systems. The unit operates from a standard 120 VAC 60 Hz power source.

Architect's and Engineer's Specifications

The amplifier shall be a solid state paging amplifier rated at 10 Watts RMS output power. The amplifier shall be capable of mixing two inputs; a MIC/LINE input and a MUSIC input. For the MIC/LINE input, there shall be a rear panel slide switch that selects whether the input matches a balanced Lo-Z (100 Ω -200 Ω) microphone level or a balanced line level source. 24 VDC phantom power shall be available on this input with the addition of a jumper on the internal circuit board. Connections to this input shall be made on a strip of three screw terminals. The MUSIC input shall match an unbalanced 47 K Ω line level source on a standard RCA phono jack. BASS and TREBLE controls shall be located on the rear panel and affect the MUSIC input only. The amplifier

shall have an voice-activated muting feature that mutes the MUSIC input when a signal is detected on the MIC/LINE input. It shall be possible to defeat this feature by the addition of a jumper on the internal circuit board. The front panel of the unit shall have level controls for both the MIC/LINE and MUSIC inputs, a red LED power-on indicator, and a slide switch for turning the power to the unit on and off. There shall be power outputs for direct speaker coil connections at 4 Ohms and 8 Ohms, and for 25 Volt and 70.7 Volt speaker distribution lines. The unit shall operate from a standard 120 VAC, 60 Hz power source. The University Sound Model 1710 paging amplifier has been specified.

Rear-panel and Block Diagram



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