

DMX Audio Controller, Part # 1-567



Control all your sound effects, radio microphones and musical tracks from the DMX network with this 4-Channel Audio Volume control unit.

The DMX-Audio Control simply connects to your existing DMX network to allow the central lighting desk full control over the volume of up to 4 mono or 2 stereo audio sources. The DMX-Audio Control requires 4 DMX channels for mono operation and 2 channels for stereo operation. Front panel leds indicate the state of individual channel settings. The base address may be set anywhere between channels 1 and 509.

Connections

DMX: Dual 5-pin XLR connections

Power: 2.1mm socket, centre positive. Power requirements are 9V DC at 0.5Amps

Line Sockets: ¼" jack sockets: Tip-input, Ring-output, Body-ground

DMX Address: 9-way "piano" type switch. Additional switch selects either 4 channel (mono) or 2-channel (stereo- channels 1 and 2 ganged, channels 3 and 4 ganged) operation

Indicators

DMX Status LED: DMX present- solid red, flashes when no suitable DMX signal present

Channel Volume: Four individual leds give a visual indication of the current level of attenuation on each channel.

Operation

The DMX-Audio Controller contains four digital audio taper potentiometers each having a logarithmic resistive characteristic. Each potentiometer incorporates zero-crossing detection to minimise noise resulting from wiper transitions. In 4-channel mono mode, the attenuation of channel 1 is controlled by the DMX value on the base address channel, the attenuation of

channel 2 on the dmx base address+1 channel etc. In 2-channel stereo mode, the DMX base address controls audio channels 1 and 2 together, base address+1 controls audio channels 3 and 4.

Relationship between DMX value and attenuation:

<u>DMX Channel Value</u>	<u>Output Level (dB)</u>
252-255	0 (unity gain, no attenuation)
248-251	-1
244-247	-2
-----	----
1-3	-63
0	-90

Potentiometer input DC resistance- 45K ohms per channels.

Maximum input voltage: 1.5V

For further details on the potentiometers, please refer to the Maxim DS1801 data sheet.

Mechanical

Case size: 135x135x52mm