

## DMX Audio Controller - 8 / 4



Control all your sound effects, radio microphones and musical tracks from the DMX network with this 8-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 8 mono or 4 stereo audio sources. The DMX-Audio Control requires 8 DMX channels for mono operation and 4 channels for stereo operation. Front panel leds indicate the state of individual channel settings. The base address may be set anywhere between channels 8 and 504.

### 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: 6-way "piano" type switch. Additional switch selects either 8 channel (mono) or 4-channel (stereo- channels 1 and 2 ganged, channels 3 and 4 ganged etc) operation

### Indicators

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

Channel Volume: Eight 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 8-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 4-channel stereo mode, the DMX base address controls audio channels 1 and 2 together, base address+1 controls audio channels 3 and 4 etc.

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