MDA Series

MINI DISTRIBUTION AMPLIFIERS
FOR COMPOSITE VIDEO, S-VIDEO,
SDI SERIAL DIGITAL VIDEO,
AND STEREO AUDIO

- 10 models for composite video, S-video, SDI, and stereo audio
- Compatible with NTSC, PAL, and SECAM video standards
- 435 MHz (-3dB) video bandwidth, fully loaded, for composite video models
- 270 MHz (-3dB) video bandwidth, fully loaded for S-video models
- 143 to 360 Mbps, cable EQ to 1,000 feet (300 meters), for SDI model
- Balanced or unbalanced audio
- Rack mountable 1U, quarter rack width metal enclosure
- Versatile mounting options
- External international power supply included

The Extron MDA Series Mini Distribution Amplifiers are a series of active signal splitters which distribute audio and video from one source to multiple destinations while keeping the integrity of the original signal. This series includes 10 models for composite video, S-video, SDI serial digital video, and stereo audio. Part of the VersaTools line, MDA Series distribution amplifiers are the ideal solution for easy integration into both new and existing A/V system designs.
The Extron MDA Series of Mini Distribution Amplifiers includes 10 models for composite video, S-video, SDI serial digital video, and stereo audio. The MDA Series video DAs are compatible with NTSC, PAL, and SECAM video signals, and allow for cable runs up to 150 feet with analog video, and up to 1000 feet with SDI digital video signals. Audio-capable MDA models feature captive screw or RCA connectors for balanced/unbalanced or unbalanced, line level stereo audio signals.

Part of the VersaTools® line of economical, compact products, MDA Series distribution amplifiers are rack or under-desk mountable and include an external international power supply. Their small size makes them an ideal solution for easy integration into both new and existing A/V systems including boardrooms, training facilities, home theater, command and control centers, and rental and staging environments.

### Composite Video Models

**Unique Features**
- 435 MHz (-3 dB) video bandwidth, fully loaded
- Accepts and distributes composite video on BNC connectors
- AV model supports balanced/unbalanced audio on captive screw connectors

### S-Video Models

**Unique Features**
- 270 MHz (-3 dB) video bandwidth, fully loaded.
- Accepts and distributes S-video on 4-pin mini-DIN connectors.
- AV model supports balanced/unbalanced audio on captive screw connectors

### Stereo Audio Models

**Unique Features**
- Available with either RCA connectors for unbalanced audio or captive-screw connectors for balanced/unbalanced audio.
- Captive screw model has selectable output gain via DIP switch.

### SDI Models

**Unique Features**
- Accepts SMPTE 259M Serial Digital Video
- Recognizes NTSC, PAL, component 4:2:2, and widescreen 4:2:2 digital video standards
- Automatic cable equalization typically equalizes greater than 1,000 feet (300 meters) at 270 Mbps

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**Model | Version Description | Part Number**
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MDA 3V | 1x3 Composite Video | 60-439-01
MDA 3V Dual | 1x3 Composite Video | 60-439-10
MDA 3A | 1x3 Composite Video w/Stereo Audio | 60-439-20
MDA 5V | 1x3 Composite Video | 60-439-20

**Model | Version Description | Part Number**
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MDA 3SV | 1x3 S-Video | 60-444-01
MDA 3SVA | 1x3 S-Video w/Stereo Audio | 60-444-20
MDA 5SV | 1x3 S-Video | 60-447-01

**Model | Version Description | Part Number**
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MDA 3A | 1x3 Stereo Audio | 60-440-01
MDA 5A RCA | 1x3 Stereo Audio on RCAs | 60-439-10

**Model | Version Description | Part Number**
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MDA 4V SDI | 1x4 SDI - Serial Digital | 60-448-01
## Specifications

### VIDEO

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>Audio input – MdA 3AV, MdA 3SVA, MdA 3A, MdA 5A RCA</th>
<th>Stereo channel separation</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDA 3V/3AV, MDA 3V</td>
<td>0.03% @ 1 kHz at nominal level</td>
<td></td>
</tr>
<tr>
<td>MDA 3V</td>
<td>&gt;80 dB @ 1 kHz; &gt;60 dB @ 20 kHz</td>
<td></td>
</tr>
<tr>
<td>MDA 3V Dual</td>
<td>&gt;75 dB @ 20 Hz to 20 kHz</td>
<td></td>
</tr>
<tr>
<td>MDA 3SV</td>
<td>&gt;17 dBu (unbalanced) at 1%THD+N</td>
<td></td>
</tr>
<tr>
<td>MDA 3SVA</td>
<td>&gt;15 dBm, balanced or unbalanced, at 1%THD+N</td>
<td></td>
</tr>
<tr>
<td>MDA 3AV</td>
<td>&gt;24 dBu (balanced) at 1%THD+N</td>
<td></td>
</tr>
<tr>
<td>MDA 5V</td>
<td>&gt;14 dBm, unbalanced, at 1%THD+N</td>
<td></td>
</tr>
<tr>
<td>MDA 5A RCA</td>
<td>&gt;10 dBm, balanced or unbalanced, at 1%THD+N</td>
<td></td>
</tr>
<tr>
<td>MDA 3SVA</td>
<td>&gt;15 dBm, balanced or unbalanced, at 1%THD+N</td>
<td></td>
</tr>
<tr>
<td>MDA 3A, MDA 5A RCA</td>
<td>&gt;15 dBm, balanced or unbalanced, at 1%THD+N</td>
<td></td>
</tr>
</tbody>
</table>

### AUDIO – MDA 3AV, MDA 3SVA, MDA 3A, MDA 5A RCA

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>Gain</th>
<th>Output Wiring</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDA 3V/3AV, MDA 3V</td>
<td>1 stereo</td>
<td>Balanced</td>
</tr>
<tr>
<td>MDA 5V/5A</td>
<td>1 stereo balanced/unbalanced</td>
<td></td>
</tr>
</tbody>
</table>

### AUDIO – MDA 3AV, MDA 3SVA, MDA 3A, MDA 5A RCA

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>Frequency response</th>
<th>THD + Noise</th>
<th>S/N</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDA 3A, MDA 3SVA</td>
<td>20 Hz to 20 kHz; 1000 Hz</td>
<td>0.03% @ 1 kHz at nominal level</td>
<td></td>
</tr>
<tr>
<td>MDA 3A, MDA 3SVA</td>
<td>&gt;90 dB, unbalanced, at maximum output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDA 3A, MDA 3SVA</td>
<td>&gt;90 dB, balanced at maximum output</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MDA 3A, MDA 3SVA</td>
<td>&gt;75 dB @ 20 Hz to 20 kHz</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### AUDIO INPUT – MDA 3AV, MDA 3SVA, MDA 3A, MDA 5A RCA

<table>
<thead>
<tr>
<th>Number/signal type</th>
<th>Connectors</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDA 3SVA, MDA 3SVA</td>
<td>2 RCA connectors</td>
</tr>
<tr>
<td>MDA 3AV, MDA 3AV, MDA 3A</td>
<td>1 stereo, unbalanced</td>
</tr>
<tr>
<td>MDA 3AV, MDA 3AV</td>
<td>&gt;15 dBm, balanced or unbalanced, at 1%THD+N</td>
</tr>
<tr>
<td>MDA 3AV, MDA 3AV</td>
<td>&gt;14 dBm, unbalanced, at 1%THD+N</td>
</tr>
<tr>
<td>MDA 5V, MDA 5V, MDA 5A RCA</td>
<td>&gt;14 dBm, unbalanced, at 1%THD+N</td>
</tr>
<tr>
<td>MDA 5V, MDA 5V</td>
<td>&gt;15 dBm, balanced or unbalanced, at 1%THD+N</td>
</tr>
<tr>
<td>MDA 5V, MDA 5V</td>
<td>&gt;14 dBm, unbalanced, at 1%THD+N</td>
</tr>
<tr>
<td>MDA 5A RCA</td>
<td>&gt;14 dBm, unbalanced, at 1%THD+N</td>
</tr>
</tbody>
</table>

Specifications are subject to change without notice.
MOUNTING OPTIONS

APPLICATION DIAGRAM

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