

Extron® Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



**AUDIO VIDEO DISTRIBUTION AMPLIFIERS
MDA 3AV RCA, MDA 5AV RCA, & MDA 5SVA RCA**

Video inputs and outputs on female BNC connectors (composite) or 4-pin mini-DIN connectors (S-video)

Distributes unbalanced stereo audio on RCA connectors

435 MHz (-3db) video bandwidth on composite models

270 MHz (-3db) video bandwidth on S-video models

Metal enclosure
1U high Rack mountable
(half rack width)



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DESCRIPTION

The Extron MDA 3AV RCA, MDA 5AV RCA, and MDA 5SVA RCA Mini Distribution Amplifiers (MDAs) are compact distribution amplifiers for the distribution of a single source input to multiple outputs and are ideal for a wide range of A/V applications including boardrooms, training facilities, home theater, command and control centers, and rental and staging. The MDA 3AV RCA offers one input, three output composite video and unbalanced stereo audio on RCA connectors. The MDA 5AV RCA offers one input, five output composite video on BNC connectors and unbalanced stereo audio on RCA connectors. The MDA 5SVA RCA offers 1x5 S-video on 4-pin mini-DIN and unbalanced stereo audio on RCA connectors. The input on all three models feature a separate, passive loop-through channel that can be used to chain together several MDAs to provide additional outputs. MDAs are housed in half rack width, 1U metal enclosures and include an internal power supply that will accept 100-240VAC.

FEATURES

- Video inputs and outputs on female BNC connectors or 4-pin mini-DIN connectors
- NTSC, PAL, and SECAM compatible
- Accepts and distributes unbalanced stereo audio on RCA connectors
- 435 MHz (-3db) video bandwidth on composite models; 270 MHz (-3db) video bandwidth on S-video models
- Metal enclosure
- 1U high rack mountable (half rack width)

SPECIFICATIONS

Video

Gain	Unity
Bandwidth	
MDA 5SVA RCA	270 MHz (-3dB)
MDA 3AV RCA, MDA 5AV RCA	435 MHz (-3dB)
Differential phase error	0.05°, 0 to 50 MHz
Differential gain error	<0.05%, 0 to 50 MHz
K factor	<0.05%

Video input

Number/signal type	
MDA 5SVA RCA	1 NTSC/PAL S-video
MDA 3AV RCA, MDA 5AV RCA	1 NTSC/PAL composite video

Connectors

MDA 5SVA RCA	1 4-pin mini DIN female
MDA 3AV RCA, MDA 5AV RCA	1 BNC female

Minimum/maximum level(s)

MDA 5SVA RCA	Y: 0.4V to 2.0V p-p with no offset
MDA 3AV RCA, MDA 5AV RCA	0.4V to 2.0V p-p with no offset

Impedance	75 ohms
Return loss	-40dB @ 0 to 10 MHz
Maximum DC offset	1.0V

Video output

Number/signal type	
MDA 5SVA RCA	6 S-video: 5 amplified for distribution, 1 passive loop-through
MDA 3AV RCA	4 composite video: 3 amplified for distribution, 1 passive loop-through

SPECIFICATIONS (Cont.)

MDA 5AV RCA	6 composite video: 5 amplified for distribution, 1 passive loop-through
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Connectors

MDA 5SVA RCA	6 4-pin mini-DIN
MDA 3AV RCA	4 BNC female
MDA 5AV RCA	6 BNC female

Minimum/maximum level(s)

.....	0.4V to 2.0V p-p
Impedance	75 ohms
Return loss	-30dB @ 5 MHz
DC offset	±5mV maximum with input at 0 offset

Sync

Standards	NTSC 3.58, NTSC 4.43, PAL & SECAM
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Audio

Gain	Unity
Frequency response	20 Hz to 20 kHz, ±0.05dB
THD + Noise	0.03% @ 1 kHz at rated maximum output drive

S/N	>90 dB, at rated maximum output drive
Stereo channel separation	>80 dB @ 1 kHz; >60 dB @ 20 kHz

CMRR	>75 dB @ 20 Hz to 20 kHz
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Audio input

Number/signal type	1 stereo unbalanced
Connectors	2 RCA connectors
Impedance	>50 kohms unbalanced, DC coupled
Maximum level	+24 dBu (unbalanced) at stated %THD+N

Audio output

Number/signal type	
MDA 5SVA RCA	5 stereo, unbalanced
MDA 3AV RCA	3 stereo, unbalanced
MDA 5AV RCA	5 stereo, unbalanced

Connectors

MDA 5SVA RCA	10 RCA connectors
MDA 3AV RCA	6 RCA connectors
MDA 5AV RCA	10 RCA connectors

Impedance	50 ohms unbalanced
Gain error	±0.1dB channel to channel
Maximum level (Hi-Z)	>+24dBu, unbalanced at stated %THD+N

NOTE: 0dBu = 0.775 volts (RMS).

General

Power	1100VAC to 240VAC, 50/60 Hz, 20 watts, internal, auto-switchable
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01
Enclosure type	Metal
Enclosure dimensions	1.7" H x 8.75" W x 9.5" D (1U high, half rack width) 4.2 cm H x 22.2 cm W x 24.1 cm D (Depth excludes connectors)
Product weight	2.5 lbs (1.1 kg)
Shipping weight	5 lbs (2.3 kg)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours

Model

MDA 3AV RCA	60-443-01
MDA 5AV RCA	60-479-01
MDA 5SVA RCA	60-445-01

Part Number



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