

DA AV EQ Series

DISTRIBUTION AMPLIFIERS WITH
GAIN AND EQUALIZATION CONTROLS

- Three, six, eight, and 12 output distribution amplifiers for composite video, S-video, and audio.
- 150 MHz (-3 dB) video bandwidth, fully loaded
- Independent variable gain and EQ control for every two outputs
- Individually buffered and amplified outputs
- 1U, half rack metal enclosure
- Internal international power supply



DA 6AV EQ

The Extron DA AV EQ Series are high performance distribution amplifiers designed to split and extend composite video, S-video, and audio signals over long cable runs while maintaining the quality and strength of a signal source. Housed in durable and compact half-rack metal enclosures, the DA AV EQ Series is designed 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.



Extron® Electronics

www.extron.com

DESCRIPTION

The Extron **DA AV EQ Series** includes 10 distribution amplifiers for composite video, S-video, and audio signals. With 150 MHz (-3dB) video bandwidth, fully loaded, eight models feature gain adjustments to allow for compensation of signal level loss that occurs over long cable runs, while the EQ adjustments compensates for high frequency loss. All video models are compatible with NTSC, PAL, and SECAM video signals, and allow for cable runs of 600 feet (180 meters) to 1,000 feet (300 meters) or more, depending on the quality of the coax cable. Each video model also includes input loop-through capabilities, which enables users to add more amplifiers and create a larger DA system or drive a local monitor.

Composite Video with Audio Models

All video inputs and outputs are on female BNC connectors. Balanced/unbalanced stereo audio is accepted on captive screw connectors, while unbalanced stereo is accepted on RCA connectors.

Model	Outputs	Signal Type	Audio Connectors
DA 3AV RCA*	3	Composite video & stereo audio	RCA Connectors
DA 6V EQ	6	Composite video	—
DA 6AV EQ	6	Composite video & stereo audio	Captive screw Connectors
DA 6AV RCA EQ	6	Composite video & stereo audio	RCA Connectors
DA 12V/6V Dual EQ	12/6	Composite video	—
DA 8V/4V Dual EQ	8/4	Composite video	—

* No gain or EQ controls



DA 3AV RCA



DA 6V EQ



DA 6AV EQ



DA 6AV RCA EQ



DA 12V/6V Dual EQ



DA 8V/4V Dual EQ

S-Video with Audio Models

All video inputs and outputs are on female 4-pin mini DIN connectors. Balanced/unbalanced stereo audio is accepted on captive screw connectors, while unbalanced stereo is accepted on RCA connectors. Separate gain controls are provided for luma (Y) and chroma (C) signals.

Model	Outputs	Signal Type	Audio Connectors
DA 6SV EQ	6	S-video	—
DA 6SVA EQ	6	S-video & stereo audio	Captive screw connectors
DA 6SVA RCA EQ	6	S-video & stereo audio	RCA connectors



DA 6SV EQ



DA 6SVA EQ



DA 6SVA RCA EQ

Stereo Audio Models

Balanced/unbalanced stereo audio is accepted on captive screw connectors.

Model	Outputs	Signal Type	Audio Connectors
DA 6A*	6	Stereo audio	Captive screw connectors

* No gain or EQ controls



DA 6A

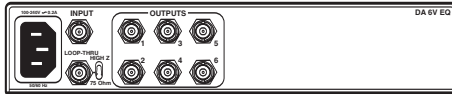
FEATURES

- 150 MHz (-3 dB) video bandwidth
- Variable gain and EQ adjustments (most models)
- Independent gain and EQ control for every two outputs (most models)
- Buffered and amplified outputs
- Video loop-through (most models)
- 1U, half rack metal enclosure
- Furniture and rack-mountable
- Internal international power supply

PANEL DRAWINGS



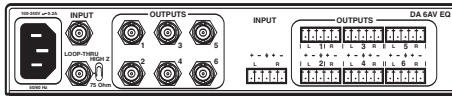
DA 6V EQ (Front)



DA 6V EQ (Back)



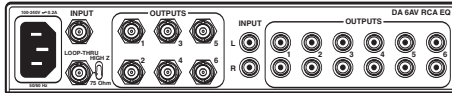
DA 6AV EQ (Front)



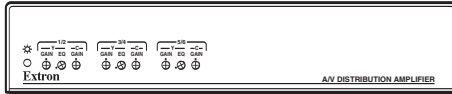
DA 6AV EQ (Back)



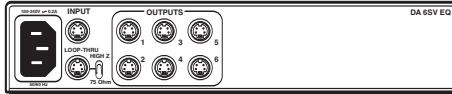
DA 6AV RCA EQ (Front)



DA 6AV RCA EQ (Back)



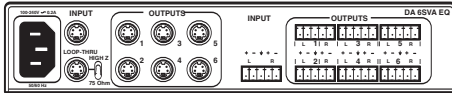
DA 6SV EQ (Front)



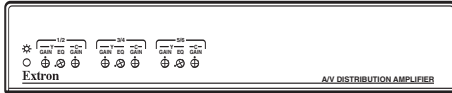
DA 6SV EQ (Back)



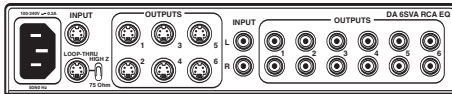
DA 6SVA EQ (Front)



DA 6SVA EQ (Back)



DA 6SVA RCA EQ (Front)



DA 6SVA RCA EQ (Back)



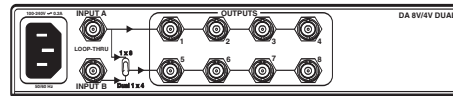
DA 6A (Front)



DA 6A (Back)



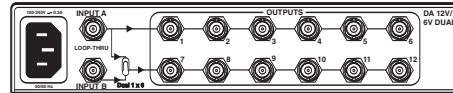
DA 8V/4V Dual (Front)



DA 8V/4V Dual (Back)



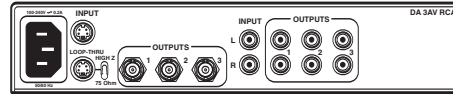
DA 12V/6V Dual (Front)



DA 12V/6V Dual (Back)



DA 3AV RCA (Front)



DA 3AV RCA (Back)



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VIDEO	
Gain	-6 dB to +6 dB (x 0.7 to x 1.4), adjustable
Equalization.....	0 dB to +6 dB (x 1 to x 2) at 4 MHz, adjustable
Bandwidth.....	150 MHz (-3 dB)
Output cable driving distance	Up to 1000 feet with MHR cable, up to 2000 feet with RG6 or RG59 cable

VIDEO INPUT AND LOOP-THROUGH	
Number/signal type	
DA 3AV, DA 6V, DA 6AV models	1 composite video input, 1 composite video loop-through
DA 6SV, DA 6SVA models	1 S-video, 1 S-video loop-through
DA 12V/6V Dual EQ	1 or 2 composite video
DA 8V/4V Dual EQ	1 or 2 composite video
Connectors	
DA 3AV, DA 6V, DA 6AV models.....	1 female BNC (input), 1 female BNC (loop-through)
DA 6SV, DA 6SVA models	1 female 4-pin mini DIN (input), 1 female 4-pin mini DIN (loop-through),
DA 12V/6V Dual EQ	2 female BNC
DA 8V/4V Dual EQ	2 female BNC
Nominal level	1 V p-p for Y of S-video, and for composite video 0.3 V p-p for C of S-video
Minimum/maximum levels	
DA 6V, DA 6AV models, DA 12V/6V Dual EQ, DA 8V/4V Dual EQ	0.4 V to 2.0 V p-p with no offset at unity gain
DA 6SV, DA 6SVA models	Y: 0.4 V to 2.0 V p-p with no offset at unity gain
Impedance	75 ohms or Hi-Z, selectable
Return loss	<-30dB @ 5 MHz
DC offset (max. allowable)	5.0 V, AC coupled

VIDEO OUTPUT	
Number/signal type	
DA 3AV	3 composite video
DA 6V, DA 6AV models	6 composite video
DA 6SV, DA 6SVA models	6 S-video
DA 12V/6V Dual EQ	12 composite video
DA 8V/4V Dual EQ	8 composite video
Connectors	
DA 3AV	3 female BNC
DA 6V, DA 6AV models	6 female BNC
DA 6SV, DA 6SVA models	6 female 4-pin mini DIN
DA 12V/6V Dual EQ	12 female BNC
DA 8V/4V Dual EQ	8 female BNC
Nominal level	1 V p-p for Y of S-video, and for composite video 0.3 V p-p for C of S-video
Minimum/maximum levels	0.4 V to 2.0 V p-p
Impedance	75 ohms
Return loss	<-30 dB @ 5 MHz
DC offset.....	±5 mV with input at 0 offset)

SYNC	
Standards	NTSC 3.58, NTSC 4.43, PAL, SECAM

AUDIO	
Gain	Unbalanced output: -6 dB or 0 dB; balanced output 0 dB or +6 dB, jumper selectable
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz at nominal level
S/N	
All RCA models	>90 dB, unbalanced, at maximum output (unweighted)
DA 6AV EQ, DA 6SVA EQ, DA 6A	>90 dB, balanced, at maximum output (unweighted)
Stereo channel separation	>80 dB @ 1 kHz, >60 dB @ 20 kHz
CMRR	>75 dB @ 20 Hz to 20 kHz
Output cable driving distance	Up to 1000 feet with STP 22 cable

AUDIO INPUT	
Number/signal type	
RCA models	1 stereo, unbalanced
DA 6AV EQ, DA 6SVA EQ, DA 6A	1 stereo, balanced/unbalanced
Connectors	
RCA models	1 pair female RCA
DA 6AV EQ, DA 6SVA EQ, DA 6A	(1) 3.5 mm captive screw connector, 5 pole
Impedance	
RCA models	>10k ohms, unbalanced, DC coupled
DA 6AV EQ, DA 6SVA EQ, DA 6A	>20k ohms unbalanced, >40k ohms balanced, DC coupled
Nominal level	Compatible with +4 dBu (1.23 Vrms), 0 dBu (0.775 Vrms), -10 dBV (316 mVrms), -20 dBV (100 mVrms)
Maximum level	
RCA models	+18dBu, (unbalanced) at 1%THD+N
DA 6AV EQ, DA 6SVA EQ, DA 6A	+24 dBu, (balanced) at 1%THD+N
NOTE:	0 dBu = 0.775 Vrms, 0 dBV = 1 Vrms, 0 dBV ≈ 2 dBu

AUDIO OUTPUT	
Number/signal type	
RCA models	3 or 6 stereo, unbalanced
DA 6AV EQ, DA 6SVA EQ, DA 6A	6 stereo, balanced/unbalanced
Connectors	
RCA models	6 pairs of female RCA jacks
DA 6AV EQ, DA 6SVA EQ, DA 6A	(6) 3.5 mm captive screw connectors, 5 pole
Impedance	
RCA models	50 ohms unbalanced
DA 6AV EQ, DA 6SVA EQ, DA 6A	50 ohms unbalanced, 100 ohms balanced
Maximum level (Hi-Z)	
RCA models	>+18 dBu, unbalanced at 1%THD+N
DA 6AV EQ, DA 6SVA EQ, DA 6A	>+24 dBu, balanced at 1%THD+N
Maximum level (600 ohm)	
DA 6AV EQ, DA 6SVA EQ, DA 6A	>+15 dBm, balanced at 1%THD+N

GENERAL	
Power	100 VAC to 240 VAC, 50/60 Hz, 8 watts, internal, autoswitchable
Rack mount	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or #60-190-10 or 60-604-10 Also furniture mountable with an optional Under-Desk Mounting Kit, #70-077-01, or Through-Desk Mounting Kit, #70-077-02
Enclosure type.....	Metal
Enclosure dimensions	1.7" H x 8.7" W x 6.0" D (1U high, half rack wide) 4.3 cm H x 22.1 cm W x 15.2 cm D (Depth excludes connectors.)
Product weight	2 lbs (0.9 kg)
Shipping weight	4 lbs (2 kg)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
NOTE:	All nominal levels are at ±10%

Model	Part Numbers
DA 3AV RCA	60-695-31
DA 6V EQ	60-692-01
DA 6AV EQ	60-692-21
DA 6AV RCA EQ.....	60-692-31
DA 12V/6V Dual EQ.....	60-694-01
DA 8V/4V Dual EQ.....	60-693-01
DA 6SV EQ	60-692-02
DA 6SVA EQ.....	60-692-22
DA 6SVA RCA EQ.....	60-692-32
DA 6A	60-692-20

Specifications are subject to change without notice.