

Specifications — DA AV EQ Series

Video

Gain.....	(all models except DA 6A and 3AV RCA)
Video and Y.....	-1 dB to +3 dB (x 0.9 to x 1.4), adjustable per every 2 outputs
C (chroma).....	Adjustable for DA 6SV EQ, DA 6SVA EQ A, DA 6SVA RCA EQ: 0 dB to +10 dB (x1 to x3)
Equalization.....	All models except DA 3AV RCA: 0 dB to +8 dB (x1 to x2) at 5 MHz, adjustable per every 2 outputs
Bandwidth.....	150 MHz (-3 dB)
Output cable driving distance.....	Up to 1000 feet with Mini HR cable, up to 1500 feet with RG6 or RG59 cables

Video input and loop through

Number/signal type	
DA 6V, DA 6AV, DA 6AV RCA EQ, and DA 3AV RCA	1 composite video input 1 composite video passive loop-through
DA 6SV, DA 6SVA, and DA 6SVA RCA EQ	1 S-video 1 S-video passive loop-through
DA 12V/6V Dual EQ, DA 8V/4V Dual EQ	1 composite video and 1 buffered loop-through or 2 composite video
Connectors	
DA 6V, DA 6AV, DA 6AV RCA EQ, and DA 3AV RCA	1 female BNC (input) 1 female BNC (loop-through)
DA 6SV, DA 6SVA, and DA 6SVA RCA EQ	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	
Composite video or Y signal	0.4 V to 2.0 V _{p-p} with no offset at unity gain
DA 6SV, DA 6SVA, and DA 6SVA RCA EQ	Y: 0.4 V to 2.0 V _{p-p} with no offset at unity gain
Impedance	
DA 8V/4V Dual EQ, DA 12V/6V Dual	75 ohms
All other models.....	75 ohms or Hi-Z, selectable
Return loss.....	-30 dB @ 5 MHz
DC offset (max. allowable).....	4.0 V, AC coupled

Video output

Number/signal type	
DA 6V, DA 6AV, and DA 6AV RCA EQ	6 composite video
DA 6SV, DA 6SVA, and DA 6SVA RCA EQ	6 S-video
DA 12V/6V Dual EQ.....	12 composite video
DA 8V/4V Dual EQ.....	8 composite video
DA 3AV RCA.....	3 composite video

Specifications — DA AV EQ Series, cont'd

Connectors

- DA 6V, DA 6AV, and DA 6AV RCA EQ
6 female BNC
- DA 6SV, DA 6SVA, and DA 6SVA RCA EQ
6 female 4-pin mini DIN
- DA 12V/6V Dual EQ 12 female BNC
- DA 8V/4V Dual EQ 8 female BNC
- DA 3AV RCA 3 female BNC
- Nominal level 1 Vp-p for composite video and for Y of S-video
0.3 Vp-p for C of S-video
- Minimum/maximum levels 0.4 V to 2.0 Vp-p
- Impedance 75 ohms
- Return loss -30 dB @ 5 MHz

Sync

- Standards NTSC 3.58, NTSC 4.43, PAL, SECAM

Audio

- Gain Unity when internal jumpers are set to match output wiring. See the table below for other conditions.

Internal Jumpers	Balanced	Unbalanced
Output Wiring		
Balanced	0 dB	+6 dB
Unbalanced	-6 dB	0 dB

- Frequency response 20 Hz to 20 kHz, ± 0.05 dB (with voltage reference @ 1 kHz)
- THD + Noise 0.03% @ 1 kHz at nominal level
- S/N (at any output) >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 >18k ohms, unbalanced, DC coupled
- DA 6AV EQ, DA 6SVA EQ, DA 6A
>18k ohms unbalanced, >24k 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 +18 dBu, (unbalanced) at 1%THD+N
- DA 6AV EQ, DA 6SVA EQ, DA 6A
+24 dBu, (balanced) at 1%THD+N

NOTE $0\text{ dBu} = 0.775\text{ V}_{\text{rms}}$, $0\text{ dBV} = 1\text{ V}_{\text{rms}}$, $0\text{ dB} \approx 2\text{ dBu}$

Audio output

Number/signal type

DA 6AV RCA EQ and DA 6SVA RCA EQ	6 stereo, unbalanced
DA 3AV RCA.....	3 stereo, unbalanced
DA 6AV EQ, DA 6SVA EQ, DA 6A	6 stereo, balanced/unbalanced

Connectors

DA 6AV RCA EQ and DA 6SVA RCA EQ	6 pairs of female RCA jacks
DA 3AV RCA.....	3 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
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General

Power	100 VAC to 240 VAC, 50-60 Hz, 8 watts, internal
Temperature/humidity	Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing
Mounting	
Rack mount	Yes, with optional 1U deep rack shelf
Furniture mount	Yes, with optional under-desk mounting kit or through-desk mounting kit
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)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, c-UL, UL
EMI/EMC	CE, C-tick, FCC Class A, VCCI, ICES
Warranty	3 years parts and labor

NOTE All nominal levels are at $\pm 10\%$.

NOTE Specifications are subject to change without notice.

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