

Specifications — PA 300 Peaking Amplifier

Video

Gain.....	-2.5 to +3.5 dB (x0.75 to x1.4), adjustable; default = 0 dB
Peaking/equalization	
Low frequency.....	0 to 4 dB at 10 MHz, adjustable
High frequency.....	0 to 15 dB at 120 MHz, adjustable
Bandwidth.....	350 MHz (-3 dB)
Output cable driving distance.....	Up to 600' (185 m) with Extron Mini HR cable Up to 1000' (300 m) with Extron RG6 or RG 59 cable (tested with a 1600x1200, 60 Hz computer video signal)

Video input

Number/signal type.....	1 analog RGBHV, RGBS, RGsB, RsGsBs, component video (interlaced, progressive, HDTV), S-video, composite video
Connectors	5 female BNC
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video
Minimum/maximum levels.....	Analog: 0.4 V to 2.0 Vp-p with no offset at unity gain
Impedance.....	75 ohms
Horizontal frequency.....	15 kHz to 150 kHz
Vertical frequency.....	40 Hz to 140 Hz
Return loss.....	-30 dB @ 0 to 5 MHz
DC offset (max. allowable).....	1 V

Video output

Number/signal type.....	1 analog RGBHV, RGBS, RGsB, RsGsBs, component video (interlaced, progressive, HDTV), S-video, composite video
Connectors	5 female BNC
Nominal level	1 Vp-p for Y of component video and S-video, and for composite video 0.7 Vp-p for RGB and for R-Y and B-Y of component video 0.3 Vp-p for C of S-video (Excluding sync when gain and peaking potentiometers are set to unity gain [follows input])
Minimum/maximum levels.....	Analog: 0.4 V to 2.0 Vp-p
Impedance.....	75 ohms
Return loss.....	-32 dB @ 5 MHz
DC offset.....	±6 mV with input at 0 offset

Sync

Input type.....	RGBHV, RGBS, RGsB, RsGsBs, YUV (bi-level and tri-level)
Output type.....	RGBHV, RGBS, RGsB, RsGsBs, YUV (bi-level and tri-level)
Standards.....	NTSC 3.58, NTSC 4.43, PAL, SECAM
Input level	
RGBHV, RGBS	TTL: 1.8 V to 5.0 Vp-p
RGsB, RsGsBs	Analog: 0.3 Vp-p
Output level	
RGBHV, RGBS	TTL: 5.0 Vp-p, unterminated
RGsB, RsGsBs	Analog: 0.3 Vp-p, follows input
Input impedance	510 ohms
Output impedance	50 ohms
Max. propagation delay	H: 50 ns V: 110 ns

Specifications — PA 300 Peaking Amplifier, cont'd

Max. rise/fall time	H: <3 ns V: <3 ns
Polarity.....	RGBHV, RGBS: positive or negative (follows input) RGsB, RsGsBs: negative

General

Power	100 VAC to 240 VAC, 50-60 Hz, 3.6 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
Cooling	Convection, vents on rear panel
Mounting	
Rack mount	Yes, with optional rack shelf kit
Furniture mount.....	Yes, with optional under-desk 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	1.5 lbs (0.7 kg)
Shipping weight	3 lbs (2 kg)
Vibration.....	ISTA 1A in carton (International Safe Transit Association)
Regulatory compliance	
Safety.....	CE, CUL, UL
EMI/EMC	CE, C-tick, FCC Class A, ICES, VCCI
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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