

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
Connectors	5 female BNC
Nominal level	0.7 Vp-p for RGB excluding sync
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
Connectors	5 BNC female
Nominal level	0.7 Vp-p for RGB 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
Output type	RGBHV, RGBS, RGsB, RsGsBs
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
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, autoswitchable
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

Rack mount	Yes, with optional 1U rack shelf, part #60-190-01 or 60-604-01; or optional 1U, 6" deep rack shelf, part #60-190-10 or 60-604-10. Also furniture mountable with optional under-desk (#70-077-01) and through-desk (#70-077-02) mounting kits.
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)
Listings	UL, CUL
Compliances	CE, FCC Class A, VCCI, AS/NZS, ICES
MTBF	30,000 hours
Warranty	3 years parts and labor

NOTE *All nominal levels are at ±10%.*

NOTE *Specifications are subject to change without notice.*

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