

Extron Electronics

INTERFACING, SWITCHING AND DISTRIBUTION

250 MHz Bandwidth

15-150 kHz Compatible

Variable Level Control

Variable Peaking Control

1000 ft. (262 meters) Boost

Sync Conditioner

Sync Processor

Universal Compatibility

Long Line Driver

Rack Mountable

Metal Enclosure

Built-in Sync Stripper

Internal Power Supply



PA 250 - PEAKING AMPLIFIER



A PPLICATION

EXTRON's **PA 250** is a long line peaking amplifier and sync conditioner which is capable of driving RGB Video Signals up to 1000 feet. As an inexpensive alternative to fiber optics with an RGB Video Bandwidth of 250 MHz (-3dB), the PA 250 is designed for systems requiring long cable runs where signal quality is a premium concern. By simply connecting the PA 250 at the origin of the signal, a clean, strong signal can be maintained throughout the cable run with performance enhancing features to fit any application. Including features such as Sync Stripping, Sync Combining and Image Sharpness Control, the PA 250 can replace what could take up to four other products to accomplish.

F EATURES

- **250 MHz RGB Video Bandwidth**
- **Peaking** - This is similar to the sharpness control on a T.V. It is used to manipulate the video signal to provide a cleaner, sharper image. The peaking adjustment is actually compensating for mid and high frequency RGB Video Bandwidth response in data monitors and projectors, and for signal loss due to cable capacitance.
- **Boost Control** - Selects the percentage of maximum signal boosting capability. The Boost control allows for signal "driving" of up to 1000 feet depending on input signal frequency. Standard 15.75 kHz Video (RGB) signals can be driven up to 1000 feet with VGA/MAC and other mid frequency signals capable of going up to 600 feet. The PA 1 250 can even drive SGI 60-100 kHz signals up to 350 feet with good quality cable.
- **Level Control** - Increases signal to a maximum level of 1.4 Volts.
- **Sync Combining** - Combines horizontal and vertical sync signals into a composite sync channel.
- **Sync Separation** - Separates composite sync into separate horizontal and vertical sync.

F EATURES

- **Auto Sync Stripping** - Strips sync from the red, green and blue channels. The sync can be added back onto the green channel if desired via a rear panel dip switch.
- **15-150 kHz horizontal frequency range**
- **BNC connectors** - For ease of system integration.
- **Rack Mountable** - 1U, 1/2 rack width.

S PECIFICATIONS

Input Signal

Video	Analog: .5 to 1.4 volts p-p
Sync	Sync on Green TTL (±) Composite Sync TTL (±) Separate H&V Sync (±)
	Sync on R,G & B: 0.3 volts negative

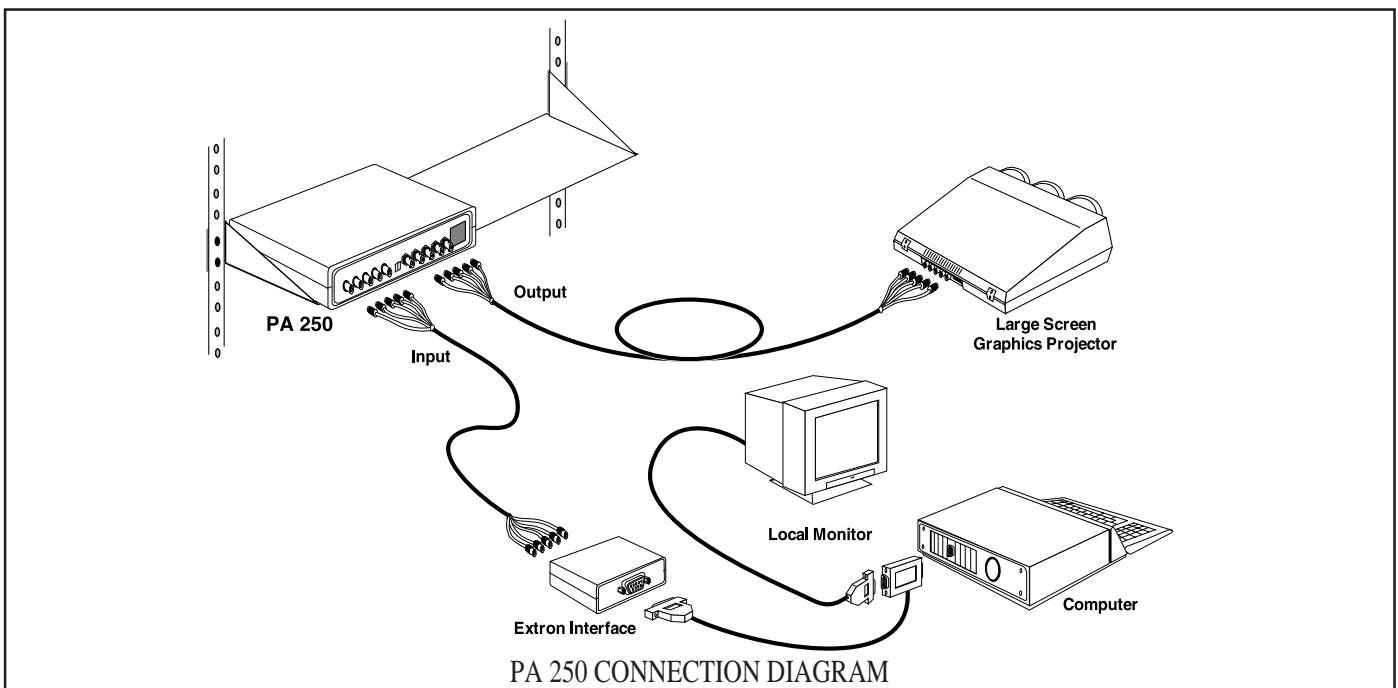
Output Signal

Video	Analog: .3 to 1.4 volts p-p
Sync	Sync on Green Composite H & V Sync Separate H & V Sync

Frequency Compatibility

Horizontal	15-150 kHz
Vertical	40-140 Hz
RGB Video Bandwidth	250 MHz (-3dB)
Impedance	Video: 75 ohms; Sync: 50 ohms
Power Supply	115/230 VAC, 50/60 Hz (auto-switchable)

Dimensions	9.75" W x 7" D x 1.75" H 25 W x 18 D x 9 H cm
Rack Mountable	Yes
Shipping Weight	2 lb. 1 oz. (2.3 kg)
Warranty	Two years, parts & labor



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