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Extron Electronics

INTERFACING, SWITCHING AND DISTRIBUTION



PA 250 - PEAKING AMPLIFIER

- 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

SERVICE SUPPORT SOLUTIONS

APPLICATION

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.

FEATURES

- **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 Seperation -** Seperates composite sync into seperate horizontal and vertical sync.

FEATURES

- **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.

SPECIFICATIONS

Input Signal

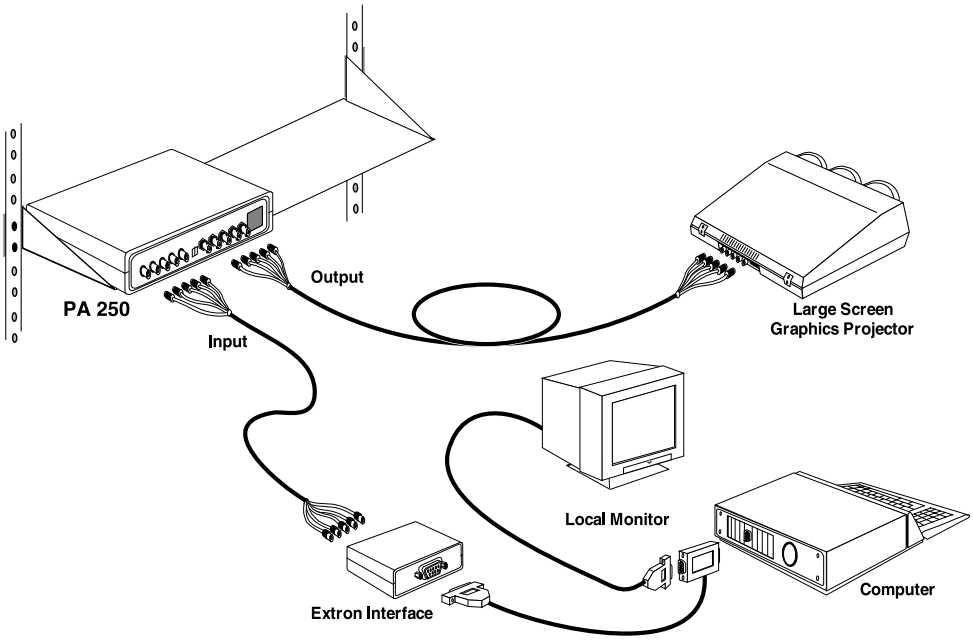
Video	Analog: .5 to 1.4 volts p-p
Sync	Sync on Green TTL (±)
	Composite Sync TTL (±)
	Seperate H&V Sync (±)
	Sync on R,G & B: 0.3 volts negative

Output Signal

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

Frequency Compatibility

Horizontal	15-150 kHz
Vertical	40-140 Hz
RGB Video Bandwidth	250 MHz (-3dB)
Impedence	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



PA 250 CONNECTION DIAGRAM

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