

Digital Processing Amplifier and Legalizer

The 5470 is a full featured serial digital processing amplifier that is perfect for adjusting and legalizing SD SDI sources. All processing is done in the digital domain, ensuring a pristine output. When set to unity, the 5470 is completely transparent.

Proc controls include level adjustment, NTSC style hue rotation, along with video, chroma and setup. Black and White clips can be set as desired. The Detail Enhancer recovers information that has been lost due to poor frequency response in upstream systems. A Split Screen mode allows you to compare the processed output with the original nonprocessed input.

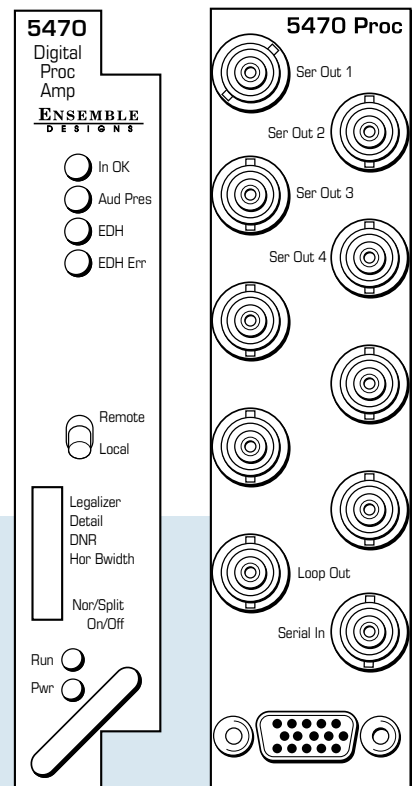
Certain values represented in serial digital component may be illegal in the PAL or NTSC domains. The 5470's Predictive Composite Clipper mode looks for and alters those values that would be illegal in analog composite, ensuring the output can be used for transmission.

Embedded audio and ancillary data are passed. If the video processing path has any delay, the embedded audio is delayed accordingly.

As with all Avenue modules, extensive remote control options are available with an Avenue Control Panel and Avenue PC.

Features

- » Video, chroma, setup and hue controls
- » Predictive Composite Clipper for legalizing signals
- » Black and white clips, hard and soft
- » Offset adjustments for Cr and Cb for black balance correction
- » Split Screen comparison mode
- » Sharpness filter for detail recovery
- » 10 bit processing
- » Passes embedded audio
- » Passes or strips ancillary data
- » EDH monitoring and insertion
- » Memory registers
- » Auto 525/625 operation
- » Remote control and card edge control
- » Optional Digital Noise Reducer can be added



Serial Input

Number One
Signal Type Serial Digital SMPTE 259M
Impedance 75 Ω
Return Loss >15 dB
Max Cable Length 300 meters Belden 1694A

Serial Output

Number Four
Signal Type Serial Digital SMPTE 259M
Impedance 75 Ω
Return Loss >15 dB
Output DC None (AC coupled)

Serial Loop Thru Output

Number One, relocked
Signal Type Serial Digital SMPTE 259M
Impedance 75 Ω
Return Loss >15 dB
Output DC None (AC coupled)
Delay <10 clocks or <740 nsec

General Specifications

Power Consumption 10 watts
Temperature Range 0 to 40°C ambient (all specs met)
Relative Humidity 0 to 95%, noncondensing
Altitude 0 to 10,000 ft
Fusing 1.5 Amp PTC resettable fuse

