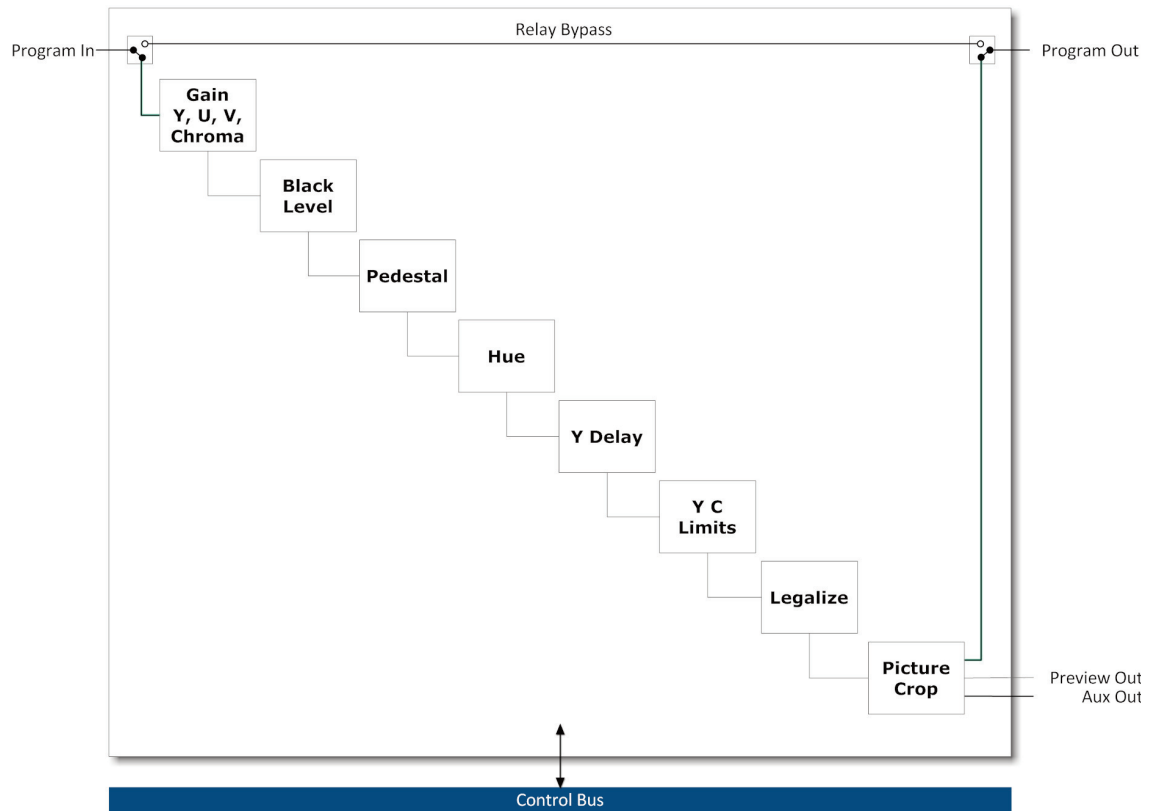


MicroVideo

HPA 300

HD/SD Processing Amp



Features

The HPA 300 is a full feature proc amp and video legaliser in a single card.

With full control over Y Gain, Black level, Limiting (standard or custom levels), U Gain, U Pedestal, Picture crop, V Gain, V pedestal, VBI line blanking, Overall Gain, Hue, Chroma Gain and Y Delay, the HPA 300 is the most complete and flexible processing amplifier and legaliser in the market today.

Auto detection of the incoming video makes the HPA 300 immediately adaptable to any broadcast environment.

The HPA 300 has one auto sensing SDI input (SDI IN). It has three outputs; program (PGM), and two auxiliary (AUX). PGM and AUX both show the SDI input with processing applied.

The HPA 300 is transparent to embedded audio and VBI data, which is passed to the outputs from the input feed.

Full control via intuitive web interface or through external remote control panel.

Legalisation of SDI video

10 bit processing throughout

Independent adjustment of processing parameters

Auto senses video standard

Transparent pass through of all ancillary data

Blank/pass individual VBI/VANC data lines

Intuitive Web or RS422 user control

Picture cropping

Specification

Input

SD/HD Serial Video Standard	SMPTE 424M (3Gb/s) SMPTE 292M (1.5Gb/s) SMPTE 259M (270Mb/s) 1080p/59.94, 1080i/59.94, 1080i/50, 720p/50
Number of Inputs	1
Equalization	Automatic to 75m @ 1.5Gb/s with Belden 1694A or equivalent cable.
Return Loss	> 10dB up to 1.5GHz

Output

HD Serial Video Standard	As per input As per input
Number of Outputs	3 (1 relay bypass protected, 1 broadcast quality monitoring output, 1 preview)
Signal Level	800mV nominal
DC Offset	0V ±0.5V
Rise and Fall Time	90ps nominal for HD, 600ps nominal for SD
Overshoot	< 10% of amplitude
Return Loss	> 15dB up to 1.0Gb/s, > 10dB up to 1.5Gb/s
Wideband Jitter	< 0.2UI

Miscellaneous


Weight Approx	250g
Operating Temp	0 °C to +50 °C
Dimensions	16 x 100 x 237 mm (HxWxD)
Electrical	Voltage +5Vdc

Options

Frames/Cases

HD1U-10	Rack mounting 1U frame with single PSU. Allows use of upto 6 Series 200 and 300 cards
HD1U-20	Rack mounting 1U frame with dual PSU. Allows use of upto 6 Series 200 and 300 card
SA-1-DG	Desktop Box to house single series 300 card (including TCPIP, RS232/422, cables and PSU)

Rear Connections

Program In	
Not Used	
Not Used	
Aux Out	
Aux Out	
Program Out	