

# 7550

## HD Legalizer

### Legalizer

The 7550 module is an HD Legalizer that supports high definition or standard definition digital video. When the Legalizer is enabled, the picture is processed on a pixel by pixel basis to be within legal limits for RGB requirements. Alternatively, the Y, Cr, Cb legalizer provides controls for white clip, and black clip and chroma limiting.

### Flexible Synchronization

An infinitely adjustable timing system genlocks to your house reference. The 7550 genlocks to either composite video (PAL or NTSC) or to Tri-Level Sync. The module can lock to the frame's master reference or reference can be connected directly to the module's external reference BNC. The serial output timing can be set anywhere within a frame of the selected input reference, which can be the module's external BNC reference or the frame's master timing reference.

Upon loss of signal, the 7550 provides freeze frame or black until the signal is recovered. In freeze mode, audio can be muted or passed as desired.

### Uncompromised Pictures

The HD or SD SDI input is carried at full, uncompressed bandwidth throughout the entire module, and EDH monitoring of the digital input alerts you to any incoming problem. EDH detection, monitoring and insertion are standard on the 7550. Flags are reported through Avenue PC.

### Complete Proc Amp Functions

The 7550 has a full-featured Proc Amp for adjustment of every signal parameter. Proc controls include Video and Chroma Gain, NTSC-style hue rotation, Black Balance, and Pedestal.

### Audio Tracking

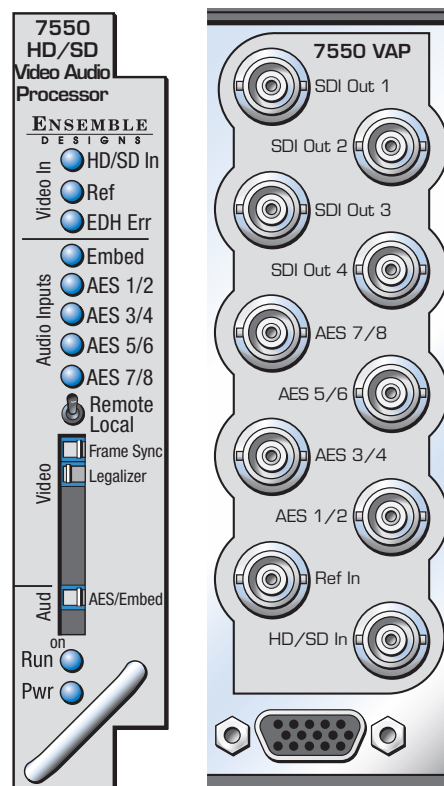
The 8415 Audio Processing option can be added to the 7550 module. The 8415 is an eight-channel processor that has been designed to provide superior handling of embedded audio. Embedded audio is safely bypassed around the video framestore with the lip sync properly preserved.

### Total Control

Every function and parameter on the 7550 and 8415 can be controlled from an Express Panel, Avenue Touch Panel, or the Avenue PC Control Application. Memory registers can be used to save the complete configuration of the module, making it easy to change instantly between different configurations.

### Features

- Legalizer
- HD or SD SDI I/O
- Full-featured Frame Synchronizer
- Comprehensive Proc Amp controls
- External genlock reference input
- EDH detection and insertion
- Internal Color Bar Generator
- Memory Registers
- Passes embedded audio
- Accepts the 8415 Audio Processor option for tracking audio delay, audio mixing, shuffling



## Input

Number	One
Signal Type	HD Serial Digital 1.485 Gb/s, SMPTE 274M, 292M or 296M SD Serial Digital 270 Mb/s, SMPTE 259M
Impedance	75 $\Omega$
Return Loss	>15 dB DC to 1.5 GHz
Automatic Cable Input Equalization	

## Standards Supported

1080i 50, 59.94 or 60 Hz, SMPTE 274M -4,5,6  
 720p 50, 59.94 or 60 Hz, SMPTE 296M -1,2,3  
 1080p 23.98, 24 or 25 Hz, SMPTE 274M -9,10,11  
 1080sF 23.98, 24 or 25 Hz, RP211 -14,15,16  
 525i 59.94, 625i 50

## Output

Number	Four
Signal Type	HD or SD Serial Digital, follows input
Impedance	75 $\Omega$
Return Loss	>15 dB DC to 1.5 GHz
Delay	Adjustable from 10 $\mu$ Sec to 4 frames

## Reference Input

Number	Two
	One external (modules BNC)
	One internal (frame master ref BNC)
Signal Type	PAL or NTSC composite video or Tri-Level Sync
Return Loss	>40 dB (applies to external ref input)

## General Specifications

Power Consumption	10 watts (with both options installed)
Temperature	0 to 40°C ambient (all specs met)
Relative Humidity	0 to 95%, noncondensing
Altitude	0 to 10,000 ft
Size	Standard Avenue Module Occupies one slot in 3RU or 1RU Frame (including the 8415 Audio Processor)

