

## 8x8 Multi Layer Router w/ Audio Follow

Model 860-XL858AV



### FEATURES

- ◆ 8X8 Video
- ◆ Audio Follow
- ◆ RS-232 Control
- ◆ VGA to QXGA Performance
- ◆ 300 MHz Bandwidth
- ◆ Control Panel Included

Rear view of 1RU 8X8 multimedia frame

Link Electronics brings a breath of fresh air to the multimedia industry! Our combined history in the Broadcast Industry experience and impeccable integrity has been applied to a new family of high performance multimedia switchers. These multimedia switchers are not repackaged single channel switchers. They are specifically designed, from ground-up, to handle the demands of multimedia high-resolution signals.

1. The 1RU860-XL858AV is presently one of the smallest members of this family of new products from Link Electronics.

Delivering VGA to QXGA performance

Compact design. Just 1RU (1 3/4"). Competing 8x8 multimedia switchers are typically 3RU (5 1/4").

Modular design. All the electronics are on front removable 'hot shapable' plug-in modules.

The H and V sync channels are based on the same 300mHz analog switching cross-point used for the red, green, and blue channels. This allows the 860-88V/5 to handle ANY computer sync rate, polarity, or amplitude without the risk of introducing distortions or jitter to these signals.

Inputs and outputs are via HD-15 computer multimedia standard connectors, by eliminating the BNC connectors Link Electronics has eliminated one of the primary causes of signal degradation. If BNC connectors are required, an optional cable (CAD-9) is needed.

Plug-in power-supply modules. Each frame has two front load slots for power supplies. One PS is standard. The second supply is the redundant power supply option. True load power monitoring is included with remote indicators for both power supplies. The video and audio power supplies are identical in all Majestic series switchers.

8x8 stereo analog or ES/EAU digital audio can be added by linking a 1RU audio frame to the 860-XL858AV. The 1RU audio frame contains stereo audio follow.

# SPECIFICATION

## 860-XL858AV

### VIDEO INPUTS

Inputs: ..... 8,12,16,24 or 32  
Impedance: ..... 75 Ohms, 0.1% terminating  
Coupling: ..... DC  
Connector Type: ..... HD-15  
RGB Levels: ..... 0.5Vp-p to 2Vp-p Maximum  
H & V Level: ..... 0.5Vp-p to 3Vp-p Maximum

### AUDIO INPUT:

Connector Type: ..... Weco, 3-Pin Disconnect  
Impedance: ..... 20KS  
Level: ..... +26dBu, maximum  
CMRR: ..... 60dB @ 1 KHz

### VIDEO OUTPUTS

Number: ..... 1 Per Bus  
Connector Type: ..... HD-15  
Impedance: ..... 75 Ohms, 0.1% Source terminating  
RGB Level: ..... 0.5Vp-p to 2Vp-p Maximum  
H&V Level: ..... 0.5Vp-p to 3Vp-p Maximum

### AUDIO OUTPUTS:

Signal Type: ..... Balanced  
Connector Type: ..... Weco, 3-Pin Disconnect  
Impedance: ..... >30S  
Level: ..... 26dBu, maximum  
Frequency Response: .....  $\pm 0.1$ dB to 20kHz, ref 1kHz  
Crosstalk: ..... 90dB @ 10 KHz  
DC Offset: ..... <50mV  
SNR: ..... <100dB, 20Hz to 20KHz  
IM/THD: ..... <0.02%

### SIGNAL INTEGRITY

Gain ..... :Unity  $\pm 0.1$  dB.  
Freq response: .....  $\pm 0.1$ dB to 5mHz, -3dB bandwidth to 250mHz  
Resolutions: ..... Supports all graphics standards: from VGA to QXGA  
Slew rate: ..... 500V/usec.  
Ringing amplitude: ..... 1% overshoot maximum.  
Ringing duration: ..... <2ns  
Horizontal tilt: ..... <0.25%.  
Vertical tilt: ..... <0.25%.  
Crosstalk isolation: ..... 60dB to 10mHz.  
Propagation delay: ..... <5ns typical.  
In/In delay scatter: .....  $\pm 0.5$ ns.  
In/In gain scatter: .....  $\pm 0.05$ % ref unity  
DC offset: ..... <25mV  
SNR: ..... -70dB, 5mHz bandwidth, 1.0Vp-p video to RMS noise.



HD-15 Cable (Not Supplied)

