Architectural Specification for the Intelix AVDA-8 Audio/Video Distribution Amp Balun

The unit shall be an active distribution amplifier balun which distributes a single audio and video source signal to eight destinations. The unit shall be linkable to up to eight units for 64 total destinations. The source impedance requirements for the video output is 75 ohms and for the audio output 600 ohms maximum. The destination impedance requirements for the video input is 75 ohms and for the audio input is 600 ohms minimum. The distribution amplifier impedance is 100 ohms balanced for the video inputs, 10 kohms minimum balanced for the audio inputs, 100 ohms balanced for the video outputs, and 600 ohms balanced for the audio outputs. The bandwidth shall be DC to 8 MHz for the video and 50 Hz to 16 kHz for the audio. The maximum differential input shall be 0.55 Vp-p for the video and 0.50 Vp-p for the audio. The maximum differential output shall be 0.55 Vp-p for the video and 0.50 Vp-p for the audio. The insertion loss differential shall be 0 dB maximum at 4 MHz for video and 1 dB maximum at 1 kHz for audio. The video return loss shall be 24 dB minimum. The crosstalk immunity shall be 60 db minimum over the frequency range. The power supply for the unit shall be an 110V for external AC and +/- 12 VDC for DC, with 5W total max. The power supply connector shall be 5-pin DIN, pin 1 GND, pin 2 GND, pin 4 - 12V, and pin 5 + 12V. The common mode rejection shall be greater than 40 dB over the frequency range for the video and greater than 60 dB over the frequency range for the audio. The maximum distance for the composite video color shall be 2,200 feet. The maximum distance for the S-Video shall be 1,000 feet. The connectors for the source input shall be one RJ45 on the rear panel. The connectors for the looping output shall be one RJ45 on the rear panel. The connectors for the distribution outputs shall be eight RJ45 on the front panel. The RJ45 pin configuration shall be ring 7 and tip 8 for video one, ring 4 and tip 5 for video 2, ring 1 and tip 2 for audio 1, and ring 3 and tip 6 for audio 2. The unit shall be an Intelix AVDA-8 audio/video distribution amp balun.

Intelix
2222 Pleasant View Road
Middleton, WI 53562

www.intelix.com
intelix@intelix.com

Phone:608-831-0880
Toll-Free: 1-866-4-MATRIX
Fax: 608-813-1833