

Hall Research HR-722A HR-722A VGA to Fiber extender with Audio

The HR-722A Fiber Optic Communication System allows direct connection of VGA computers for signal transmission over Fiber Optic cable spanning distances to 2500 ft (0.75 kilometers) on multi-mode or 35 kilometers on single-mode fiber (approximate based on loss budget). The HR-722A features excellent picture quality with bright and sharp images. Gone are the usual signal degradation and smearing of coax or twisted pair video transmission at extended lengths. Signal integrity is also maintained through fiber optic cables' immunity to electrical interference and cross talk. The lightweight and small diameter fiber reduces installation time, particularly since only 1 fiber is needed. Fiber optic cable also has certain intrinsic benefits for installation success including resistance to electromagnetic interference (EMI), lightning, and the elimination of ground loops through electrical isolation.

Features

- Transmits VGA, SVGA, XGA and WXGA (640 x 480 up to 1366 x 768)
- Supports HDTV resolutions of 480p, 720p and 1080i (RGBHV format only)
- Uses all digital processing and transmission for crystal clear signals and no color pixel skewing
- Requires no adjustments, equalization or de-skewing during installation
- Transmits signals over one single mode or multi-mode fiber optic core at 1310 nm
- Virtually no audio/video skew
- Ideal for digital signage, broadcast or corporate studios, auditoriums, stadiums and theaters, airport or transportation hubs, distance learning, or medical imaging
- Small, lightweight, low power
- Use of Existing Fiber Lines
- Elimination of Ground Loops
- Secure Transmission for Tactical and Military Installations
- Immunity to Electromagnetic Interference

Specifications

- Video Specs: Number of Video Channels 1 RGBHV
RGB Processing 24 bits, no compression or scaling
Input Impedance RGB: 75 Ohms; H & V: Hi-Z
Input Level RGB: 714 mV p-p; H & V: 3 to 5 V p-p
H Sync Frequency Range15 to 60 kHz
V Sync Frequency Range30 to 85 Hz
RGB Format SupportedRGB with separate H and V
- Audio Specs: Number of Audio Channels 2, unbalanced
Frequency Response +0/-0.5 dB, 20 Hz - 20 kHz
Bits-per-Sample/Sampling Rate 24 bits; 54 kHz
Maximum Audio Level..... +10 dBu
SNR (A-Weighted)..... 95 dB
Input Impedance..... >24 k Ohms
Output Impedance < 1 Ohm
Audio to Video Diff. Delay (skew) <300 uSec
- General Specs: Power Requirements 9-24 v DC or AC, 5 watts (Universal power supply is included)
Operating Temperature Range -20 to +60 degrees C
Optical Connectors..... ST
Operating Wavelength 1310 nm
Physical Size 5 W x 1.15 H x 5.25 L (inches)
Weight approx. 10 oz.; 0.284 kg