

Universal Video/Stereo Audio Fiber Extenders

Use one fiber signal
to transmit one
video signal and
two audio signals.



FEATURES

- » All-digital processing and transmission!
- » Support Component, Composite, or S-Video connections plus stereo audio.
- » Work over simplex fiber optic cable.
- » Easy to set up—video and audio cables are included.
- » Extend video/audio more than 35 miles over single-mode fiber.
- » Ideal for advanced A/V or security applications.
- » LEDs show presence of power, video, and audio signals.

OVERVIEW

Analog systems aren't always ideal when trying to extend the latest advanced video and audio systems. For enhanced video quality and the highest audio fidelity, you need a digital system.

That's what you get with the **Universal Video/Stereo Audio Fiber Extenders**: crystal-clear digital transmission. Unlike traditional fiber optic extender systems that use analog processing and transmission technology—which frequently results in a less-than-optimal image—the Universal Extenders use all-digital processing and transmission.

This digital encoding results in superior, noise-free signal quality with no crosstalk or drifting, and there's no adjustment over the usable length of the fiber required.

The standalone **Universal Video/Stereo Audio Fiber Extender** is a "universal" one because it works with Composite, S-Video, or Component video, and it ships with cables for making those types of connections. It supports all Component video formats, including Y-PB-PR, Y-CB-CR, YUV, and Y/R-Y/B-Y, and is compatible with NTSC, PAL, and SECAM video formats.

For a proper mix of brightness and clarity in colors, the extenders feature 15-MHz bandwidth luminance and 7.5-MHz chrominance bandwidth.

The extenders also feature independent audio channels, which can be configured for either balanced or unbalanced inputs and outputs. By default, each extender is set for balanced 600-ohm input impedance and balanced audio output. But you can change it simply by adjusting DIP switches on the back panel.

LEDs on each extender indicate the presence of power and video and audio signals at all times.

The **Universal Video/Stereo Fiber Extenders** are ideal for numerous applications, such security systems, point-of-sale displays, and professional video A/V setups. Because the fiber extenders support today's more-sophisticated DVD players with progressive scan as well as 480p HDTV signals, they're a great fit for advanced A/V systems.

The advantages of fiber.

Fiber optics also offer uniform performance and superior signal-to-noise ratio in the transmission medium as well as a higher degree of reliability and security. Fiber also is a great medium for long-distance applications. And, unlike coax and twisted-pair media, there are no bulky cable connections.

Fiber is also great for shorter distances in which you need to send many signals. With the extenders, you can use a single fiber to send such signals point to point, eliminating the need for extra coax or shielded twisted-pair cabling.

The extenders work with both multimode and single-mode fiber. Data can be sent over 1310-nm multimode at distances up to 2 kilometers (1.2 mi.). For greater distance, use 1310-nm single-mode fiber and get distances up to 60 kilometers (37.2 mi.).

You'll need to order both a transmitter (AC300A-TX) and a receiver (AC300A-RX).

TECH SPECS

Approvals — FCC, CE

Audio Bandwidth — 20 Hz to 20 kHz

Channels — Video: (1); Audio: (2)

Distance (Maximum) — 1310-nm multimode: 2 km (1.2 mi.);
1310-nm single-mode: 60 km (37.2 mi.)

Fiber Requirement — Multimode or single-mode

Protocol — Asynchronous

Temperature Tolerance — Operating: -31 to +165°F (-35 to +74°C)

Video Bandwidth — Luma/Chroma: 14 MHz/7 MHz, -3 dB

Video Differential Gain — 1%

Video Differential Phase — 0.5°

Video Formats — Y-PB-PR, Y-CB-CR, YUV, and Y/R-Y/B-Y;
Composite; S-Video

Connectors — Video: (3) BNC;

Audio: (1) screw terminal block;

Fiber: (1) ST®;

Power: (1) terminal block

Indicators — (3) LEDs: Power, Video, Audio

Power — 100–250 VAC, 50–60 Hz, 12 VDC, external

Size — 1"H x 5.5"W x 8"D (2.5 x 14 x 20.3 cm)

What's included

Both the Transmitter and Receiver include:

- ◆ (1) 12-ft. (3.6-m) Composite video cable, BNC/BNC
- ◆ (1) 6-ft. (1.8-m) S-Video cable, 4-pin mini-DIN male to (2) BNC
- ◆ (1) 10-ft. (3-m) Component video cable, (3) BNC to (3) RCA plugs
- ◆ (1) 10-ft. (3-m) stereo audio cable, (4) tin lead shielded twisted pairs to (2) RCA plugs
- ◆ (1) BNC female to RCA male adapter
- ◆ (1) universal power supply
- ◆ (1) U.S. power cord
- ◆ (1) user's manual

NOTE: A transmitter and receiver are both required for operation. Also, distance specifications list approximate distances only and are not guaranteed. Operating loss budget must not be exceeded.

Item

Code

Universal Video/Stereo Audio Fiber Extender

Transmitter

AC300A-TX

Receiver

AC300A-RX

You may also need...

Multimode, General-Purpose Bulk Fiber Optic Cable,
62.5-/125-Micron, Plenum, Simplex, 1000-ft.
(304.8-m)

EXP4050A-1000