

## 3-Channel DVI Extender

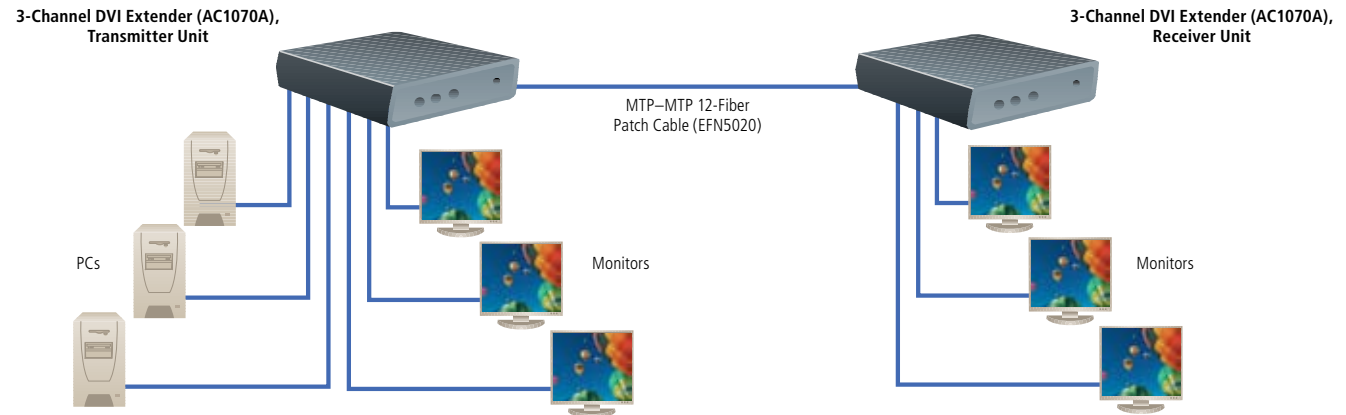
Use secure, interference-free fiber to extend DVI digital/analog signals to three displays.



## FEATURES

- » Extend DVI-I video in real time to high-definition monitors, video projectors, and other output devices with DVI interfaces.
- » By using fiber, you receive highly secure, EMI/RFI-resistant extensions at much longer distances—as far as 400 meters!
- » Ideal for digital signage links to multipanel video walls.

Send digital/analog signals from three PCs over fiber to three remote video signs and displays.



## OVERVIEW

Set up multiple high-resolution DVI displays at extended distances for digital signage and video distribution applications. The [3-Channel DVI Extender](#) enables you to locate up to three digital DVI output devices as far as 400 meters (1312.3 ft.) away—without resolution loss.

The extender kit uses 12-fiber multimode fiber optic cabling to send signals between transmitter and receiver units. By distributing and extending video over fiber, you're guaranteed secure, error-free video in even the noisiest of environments. Electromagnetic interference doesn't disrupt the video signal, and neither do power anomalies caused by lightning and power surges. You get overvoltage protection for your transmission routes.

This makes the [3-Channel DVI Extender](#) an excellent choice for mission-critical video-distribution applications, including those in heavy-duty industrial plants, and military and government installations. It's also a great choice for TV studios, training and education environments, and retail kiosk and PoS applications where you want to extend quality video at great distances. The [3-Channel DVI Extender](#) transmits video signals without compression, ensuring completely loss-free data extensions, and full video refresh rates. This gives you a high-quality image even at higher resolutions.

Use the extender kit with high-definition monitors and panels, or any display device with a DVI interface. The input side handles both digital and analog video signals from PCs or video source equipment; the receiving side's output ports are digital. Each channel supports data rates up to 3.6 Gbps with a maximum resolution of WXGA (1920 x 1200 at 60 Hz). If you use 50- or 62.5- $\mu$ m multimode cabling, the extender can cover distances up to 400 meters (1312.3 ft.).

You can also attach video output devices on the local side, linking one or more monitors to the sender unit, for instance. The kit includes a serial RS-232 cable, which you can use to attach a console for configuring the extender and updating its firmware. You also get an installation CD with a device configuration program. Following desktop menus in the program, you can easily set DVI and VGA video settings and fine-tune the analog input signal for contrast and brightness, horizontal and vertical screen positions, and screen width. You can also adjust analog phasing for the pixel scanning time to optimize the image quality.



AC1070A: rear view

## Technically Speaking

### Upgrading from VGA to DVI video.

Many new PCs no longer have traditional Cathode Ray Tube (CRT) computer monitors with a VGA interface. The latest high-end computers have Digital Flat Panels (DFPs) with a Digital Visual Interface (DVI). Although most computers still have traditional monitors, the newer DFPs are coming on strong because flat-panel displays are not only slimmer and more attractive on the desktop, but they're also capable of providing a much sharper, clearer image than a traditional CRT monitor.

The VGA interface was developed to support traditional CRT monitors. The DVI interface, on the other hand, is designed specifically for digital displays and supports the high resolution, the sharper image detail, and the brighter and truer colors achieved with DFPs.

Most flat-panel displays can be connected to a VGA interface, even though using this interface results in inferior video quality. VGA simply can't support the image quality offered by a high-end digital monitor. Sadly, because a VGA connection is possible, many computer users connect their DFPs to VGA and never experience the stunning clarity their flat-panel monitors can provide.

It's important to remember that for your new DFP display to work at its best, it must be connected to a DVI video interface. You should upgrade the video card in your PC when you buy your new video monitor. Your KVM switches should also support DVI if you plan to use them with DFPs.

## TECH SPECS

**Bandwidth** — Each channel: 165 MHz  
**Distance (Maximum)** — 50/125- $\mu$ m fiber: 400 m (1312.3 ft.);  
 62.5/125- $\mu$ m fiber: 300 m (984.2 ft.)  
**Fiber Optic Cable Required** — 12-fiber parallel multimode fiber,  
 50/125- $\mu$ m or 62.5/125- $\mu$ m, terminated with an MTP/MPO connector  
**HDTV Compatibility** — Up to 1920 x 1080 at 60 Hz  
**Resolution (Maximum)** — Digital input: 1920 x 1200 at 60 Hz;  
 Analog input: 1600 x 1200 at 60 Hz  
**CE Approval** — Yes  
**Connectors** —  
 Transmitter unit:  
 Video input: (3) DVI-I;  
 Video output: (3) DVI-I (local);  
 Serial: (1) RJ-45 (RS-232);  
 Interconnect: (1) MTP/MPO;  
 Receiver unit:  
 Output: (3) DVI-D;  
 Interconnect: (1) MTP/MPO  
**Indicators** — On both transmitter and receiver units:  
 (4) LEDs: (1) for each channel; (1) Power  
**Power** — Input: 100–240 VAC, 50–60 Hz;  
 Required power: Approximately 8 VA (per transmitter and receiver units)  
**Size** — 1.7" H x 8.6"W x 6.7"D (4.3 x 21.8 x 17 cm)

### Item

3-Channel DVI Extender  
 ♦ Includes (1) transmitter unit, (1) receiver unit,  
 (2) power cables, (2) DVI to DVI video cables,  
 (1) VGA to DVI video cable, (1) serial RS-232 cable,  
 and (1) installation CD.

### Code

**AC1070A**