

## Digital Visual Interface (DVI) Splitters

For eye-catching digital images on multiple screens, order a splitter!

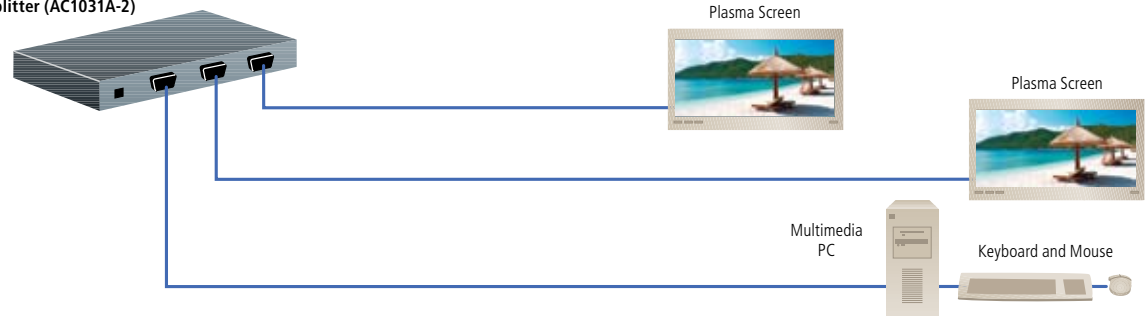


## FEATURES

- » Split your PC's DVI signals to two or four separate DVI displays.
- » Accurately and reliably reproduce the digital video signal without signal attenuation and distortion.
- » Support DVI-I (integrated analog and/or digital) video signals.
- » Include a DVI-I input cable and universal power supply.
- » Can be cascaded up to two levels deep for additional outputs.
- » Provide high digital resolution up to 1600 x 1200 @ 60 Hz.
- » No software needed. Simple, plug-and-play installation, so you can link to DVI-enabled monitors, projectors, or plasma or LCD screens in minutes.
- » Also work as amplifiers and extenders, enabling you to locate your DVI monitors up to 33 feet (10 m) from your PC and still enjoy crystal-clear digital images.
- » Great for digital signage and training applications.

For eye-catching digital images on multiple screens, order a splitter!

2-Channel Digital Visual Interface (DVI) Splitter (AC1031A-2)



## OVERVIEW

For distributing high-resolution video to more than one display device, order a BLACK BOX® Digital Visual Interface (DVI) Splitter. Available in 2- and 4-channel models, the splitters enable you to route a signal from DVI-capable PC to a plasma or an LCD screen. Supporting a DVI-I video signals at a maximum resolution of 1600 x 1200 @ 60 Hz, the splitters make it easy to use your computer to show a high-resolution presentation to an audience viewing a larger screen.

What's more, you can also use Digital Visual Interface Splitters as amplifiers and extenders, so you can locate your DVI monitors up to 33 feet (10 m) from your PC and still enjoy crystal-clear digital images.

Great for digital signage and training applications, the splitters reproduce the DVI image without any image distortion or signal attenuation.

There's no software needed. The splitters offer simple, plug-and-play installation, so you can link to DVI-enabled monitors, projectors, or plasma or LCD screens in minutes!

To add outputs to your application, just cascade multiple units. You can cascade the splitters up to two levels deep for a total of four or eight outputs. Splitters feature two or four DVI-I input connectors, and one or two DVI-I output connectors.

## Technically Speaking

### Digital Visual Interface (DVI) and other digital display interfaces.

The push is on to make displays digital, whether they're legacy Cathode Ray Tubes (CRTs) or newer Liquid Crystal Displays (LCDs)—because a digital monitor provides both excellent picture quality and higher bandwidth transfers.

There are three main types of digital video interfaces. Plug & Display (P&D, also known as EVC), the earliest of these technologies, supports both digital and analog RGB connections and is now used primarily on projectors. Digital Flat-Panel Port (DFP) was the first digital-only connector on displays and graphics cards; it's being phased out. There are two types of DVI connectors in use: DVI-D and DVI-I. DVI-D is a digital-only connector like DFP, but it offers much faster data transfer and higher resolution along with power-saving modes. DVI-I

handles both digital and analog connections like P&D does, but it's somewhat smaller. Manufacturers such as Intel®, IBM®, Compaq®, HP®, Fujitsu®, and NEC® are backing DVI technology, particularly the DVI-I connector type because it can do what previously required separate analog and digital connectors.

All these standards are based on transition-minimized differential signaling (TMDS). In a typical single-line digital signal, voltage is raised to a high level and decreased to a low level to create transitions that convey data. TMDS uses a pair of signal wires to minimize the number of transitions needed to transfer data. When one wire goes to a high-voltage state, the other goes to a low-voltage state. This balance increases the data-transfer rate and improves accuracy.



AC1031A-2, rear view

## Why Buy From Black Box? Exceptional Value. Exceptional Tech Support. Period.

Recognize any of these situations?

- You wait more than 30 minutes to get through to a vendor's tech support.
- The so-called "tech" can't help you or gives you the wrong answer.
- You don't have a purchase order number and the tech refuses to help you.
- It's 9 p.m. and you need help, but your vendor's tech support line is closed.

According to a survey by *Data Communications* magazine, 90% of network managers surveyed say that getting the technical support they need is extremely important when choosing a vendor. But even though network managers pay anywhere from 10 to 20% of their overall purchase price for a basic service and support contract, the technical support and service they receive falls far short of their expectations—and certainly isn't worth what they paid.

At Black Box, we guarantee the best value and the best support. You can even consult our Technical Support Experts before you buy if you need help selecting just the right component for your application.

Don't waste time and money—call Black Box today.

### TECH SPECS

**Distance (Maximum)** — From PC to DVI monitors: 33 ft. (10 m)

**Mean Time Between Failures** — 90,000 hours (estimate)

**Resolution (Maximum)** — PC: 1600 x 1200 at 60 Hz;

HDTV: 1080i

**Standards** — DDWG DVI 1.0; DVI-I Single Link

**CE Approval** — Yes

**Connectors** — Output: (2) or (4) DVI-I;

Input: (1) or (2) DVI-I

**Power** — Input: 100–240 VAC, 50–60 Hz, autosensing;

Output: 9 VDC, 1.7 A

**Size** — AC1031A-2: 1.4"H x 7.8"W x 2.7"D (3.6 x 19.8 x 6.9 cm);

AC1031A-4: 1.4"H x 10.6"W x 4"D (3.6 x 26.9 x 10.2 cm)

**Weight** — AC1031A-2: 1.4 lb. (0.6 kg);

AC1031A-4: 2.2 lb. (1 kg)

### Item

### Code

Digital Visual Interface (DVI) Splitters

2-Channel

**AC1031A-2**

4-Channel

**AC1031A-4**

- ◆ All include (1) splitter, (1) DVI-I input cable, (1) power supply, and (1) user manual.