

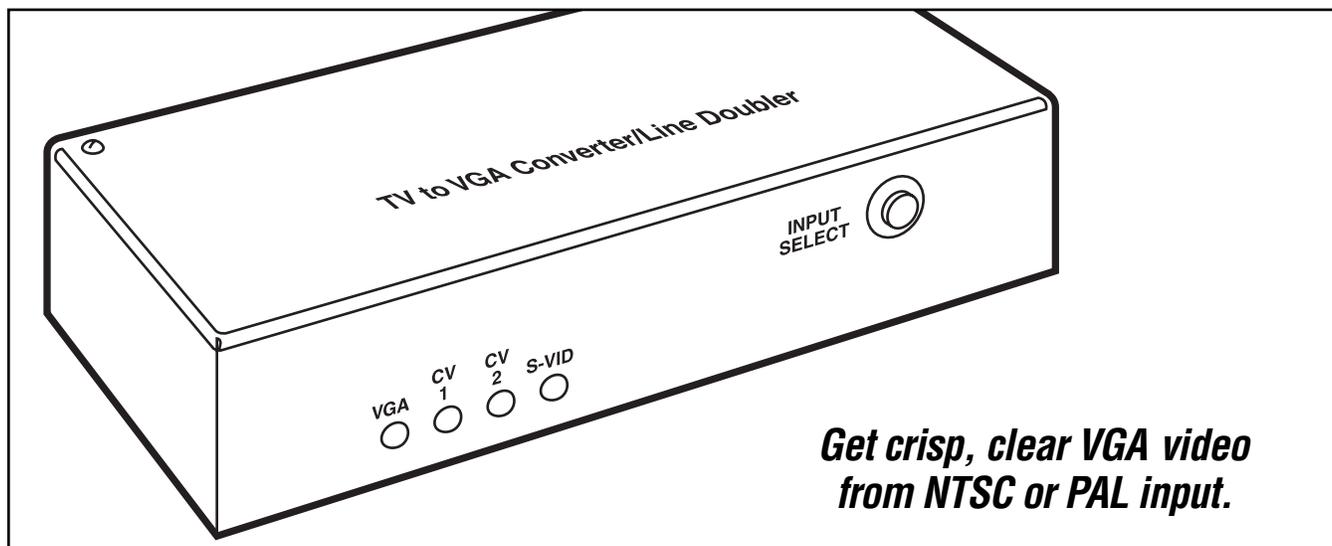


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# BLACK BOX<sup>®</sup>

## NETWORK SERVICES

### TV-TO-VGA CONVERTER/LINE DOUBLER



**Get crisp, clear VGA video  
from NTSC or PAL input.**

#### Key Features

- ▶ **Converts NTSC or PAL video signals for display on VGA monitors.**
- ▶ **Also can be used with a video projector.**
- ▶ **Provides full-screen, 24-bit, true-color, broadcast-quality video.**
- ▶ **Eliminates interlace flicker from video presentations.**
- ▶ **Compatible with VGA, SVGA, and XGA signals from any PC or Macintosh.**
- ▶ **No software required.**

Want to transfer the video from your television to your computer monitor? With the TV-to-VGA Converter/Line Doubler, you can convert a NTSC or PAL video signal to VGA for display on PC monitors, projectors—even HDTV that has HD15 input.

The TV-to-VGA Converter/Line Doubler boosts the frame rate times two by turning an interlaced TV signal into what is known as a “progressive scan.” This type of scan is a non-interlaced signal that is suitable for high-resolution display devices.

You get full-screen, 24-bit, true-color, broadcast-quality video in its complete glory. Images are sharp and vivid, and text is clear and legible.

The converter/line doubler also eliminates interface flicker.

If you are using the TV-to-VGA Converter/Line Doubler with a projector, it can significantly improve the appearance of projected video images. In fact, the converter/line doubler reduces visible line structure seen on large video images that are displayed when lesser-quality converters are used with video projectors.

The TV-to-VGA Converter/Line Doubler provides multiple TV video inputs—two RCA<sup>®</sup> composite and one for S-Video. All video inputs have their own corresponding stereo audio inputs. The audio inputs can follow the corresponding video

selection (switched on or off) or be mixed continuously to the output.

By using a single pushbutton switch on the unit’s front panel, you can select any of the four inputs. An RS-232 serial port is also available for external PC control and programming. The TV-to-VGA Converter/Line Doubler even features non-volatile memory to store the selected channel and performance characteristics.

Compatible with VGA, SVGA, and XGA<sup>®</sup> video signals from any PC or Macintosh desktop or notebook computer, the converter/line doubler requires no software. In addition, it features user-programmable brightness and contrast controls for TV input.



# 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 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.

## Technically Speaking: Inputs

The TV-to-VGA Converter/Line Doubler comes with several inputs. Here's a quick reference for their various connector types, signal types, and any other pertinent notes.

The **VGA In** input features an HD15 female connector. It supports VGA, SVGA, and XGA® video signals from any PC or Macintosh desktop or notebook computer. The AC135A package includes one 6-foot (1.8-m) VGA cable with an HD15 male connector on each end.

There are four **Audio In** inputs on the converter/line doubler. Each one features a 3.5-mm mini stereo jack to support line-level stereo audio signals. The AC135A package includes one 6-foot (1.8-m) 3.5-mm mini stereo audio cable with male-to-male connectors.

The two **CV In** inputs have RCA female connectors. They support composite NTSC or PAL video signals.

The unit's **S-Vid In** input has a 4-pin mini-DIN female connector. It enables support for Y/C S-Video and S-VHS signals.

### Just a few more connections...

The TV-to-VGA Converter/Line Doubler has two outputs, one with an HD15 female connector for VGA and one 3.5-mm mini stereo audio connector. Plug in your VGA monitor and speakers to these connectors.

Lastly, plug in the included power supply to the unit's power input connector. If you connect a power supply other than the one that ships with the unit, its output cannot be higher than 6 VDC.

## Specifications

**Approvals:** CE; CSA: E178074; FCC: Part 15, Class A; UL®

**Controls:** (1) pushbutton switch to control input

**Four Video Inputs:** VGA, 2 composite S-Video

**Video Output:** VGA

**Connectors:** (1) 4-pin mini-DIN, (1) DB9 serial, (2) HD15 F, (2) RCA® F, (5) 3.5-mm mini stereo jacks

**Indicators:** Front-panel LEDs: VGA, CV1, CV2, S-VID

**Mean Time Between Failure:** 300,000 hours

**Operating Temperature:** 32 to 122°F (0 to 50°C)

**Humidity Tolerance:** Up to 95% noncondensing

**Power:** 120 VAC, 60 Hz, external

**Size:** 2"H x 7"W x 3.3"D (5.1 x 17.8 x 8.4 cm)

**Weight:** 1.3 lb. (0.6 kg)

## What the Package Includes

- (1) TV-to-VGA Converter/Line Doubler
- (1) Power supply
- (1) 6-ft. (1.8-m) VGA cable, HD15 male to HD15 male
- (1) 6-ft. (1.8-m) 3.5-mm mini stereo audio cable, male to male

## Technically Speaking: Video Conversion

Video conversion is the process of translating computer video signals so they can be displayed on ordinary TV monitors and vice versa.

Computer video is scanned onto computer monitors much faster than ordinary TV video is scanned onto TV screens. Say for example that you want your VGA

computer monitor's video signals to be read on a TV screen. That requires conversion of both the horizontal and vertical scanning.

BLACK BOX® video converters provide high-quality conversion. Displayed text is sharp and legible, and graphically complex images are displayed accurately and in their entirety.

## Ordering Information

| ITEM                                   | CODE   |
|--|--------|
| TV-to-VGA Converter/Line Doubler ..... | AC135A |



Black Box offers the best warranty program in the industry—Fido Protection®. For more information, request **FaxBack 22512**.

