

## Video to VGA Converter with Component Input



**Display PAL/NTSC video or computer images  
on a high-definition VGA screen!**

## FEATURES

- Output video from a PC, Mac®, DVD player, VCR, or camcorder to a high-resolution TFT, plasma screen, or video projector.
- Great for displaying both video and computer images on a high-resolution large screen in a conference room.
- Supports multiple output resolutions up to UXGA (1600 x 1200).
- Automatic or manual standby modes, controllable via its intuitive front-panel menus or an RS-232 connection.
- Also provides audio stereo switching.
- Includes remote control software CD.
- Video inputs on four BNC ports.
- Compact design for use in A/V cabinets or video control stations.

## OVERVIEW

This compact box converts and scales Component or other video signals so you can show them with clarity on a high-definition screen. It accepts video sources with various video signaling—RGBS, RGB, S-Video, Composite, YUV (Component), PAL, SECAM, or NTSC formats—and displays them on a high-resolution LCD, plasma screen, video projector, or similar display device.

The Video to VGA Converter with Component Input is particularly useful in conference room or digital signage installations where you need to switch between video and computer images for viewing on a large screen.

Even better, the converter actually improves the quality of the video signal, enhancing the brightness and sharpness of the displayed image. It does this using powerful motion scaling algorithms, which on a pixel-by-pixel basis, provide a perfect, high-resolution image that's bright and colorful.

When converting the image for viewing on the high-resolution screen, the Video to VGA Converter with Component Input preserves aspect ratios, and its 3:2 and 2:2 pull-down film detection removes flickering and movement artifacts automatically. In this scaling process, the original NTSC or PAL image is recreated with clarity, particularly if it's from a film source.

The converter outputs RGBHV, RGBS, or RGB information on a female HD15 connector and features a stereo MCO type connector block for audio connections. Setup is easy. Once video, computer, and audio connections are made, you just program the converter with its user-friendly, front-panel menus and LCD screen. Select your types of video and computer inputs and the display device output format, then choose your output rate, output sync type, and aspect ratio of your input source.

If needed, you can also fine-tune the displayed image for color, brightness, sharpness, and other image parameters. Other user controls enable you to freeze the image and set the converter to switch automatically to either video or computer input if it loses the primary input signal. Full frame memory can be displayed automatically in case input sync is lost, too.

The Video to VGA Converter with Component Input also offers easy management. The Windows® compatible Remote Control Software (included) enables you to control and make adjustments with a simple click of a mouse. The control PC itself communicates with the converter via an RS-232 port. Or, if you like, run your own ASCII-based control software program.

## 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.

## Technically Speaking

### Component video.

Traditional Composite video standards—NTSC, PAL, or SECAM—combine luminance (brightness), chrominance (color), blanking pulses, sync pulses, and color burst information into a single signal.

Another video standard—S-Video—separates luminance from chrominance to provide some improvement in video quality.

But there's a new kind of video called Component video appearing in many high-end video devices such as TVs and DVD players. Component video is an advanced digital format that separates chrominance, luminance, and synchronization into separate signals. It provides images with higher resolution and better color quality than either traditional Composite video or S-Video. There are two kinds of Component video: Y-Cb-Cr and Y-Pb-Pr. Y-Cb-Cr is often used by high-end DVD players. HDTV decoders typically use the Y-Pb-Pr Component video signal.

Many of today's high-end video devices such as plasma televisions and DVD players actually have three sets of video connectors: Composite, S-Video, and Component. The easiest way to improve picture quality on your high-end TV is to simply connect it using the Component video connectors rather than the Composite or S-Video connectors. Using the Component video connection enables your TV to make use of the full range of video signals provided by your DVD player or cable box, giving you a sharper image and truer colors.

To use the Component video built into your video devices, all you need is the right cable. A Component video cable has three color-coded BNC connections at each end. For best image quality, choose a high-quality cable with adequate shielding and gold-plated connectors.



## TECH SPECS

**Resolutions Supported** — 800 x 600, 852 x 480, 1024 x 768, 1280 x 720, 1280 x 1024, 1366 x 768, 1400 x 1050, 1600 x 1200

**User Controls** — Input selection buttons and LCD screen with control and setup menus for controlling image freeze, horizontal and vertical position, size, contrast, brightness, color, hue, sharpness

**CE Approval** — Yes

**Interface** — Inputs: Video: PAL/SECAM 15.625 kHz–50 Hz or NTSC 15.735 kHz–60 Hz, YUV Component, RGBS, RGB, S-Video, Composite;

Computer: RGBHV, RGBS (up to 110 kHz);

Audio: Stereo 1 and 2;

Output: Video: Computer RGBHV, RGBS, RGB;

Computer: RGBHV, RGBS (up to 110 kHz), buffered loopthrough;

Audio: Stereo

**Connectors** — Video: (4) BNC F for YUV (Component), RGBS, RGB, S-Video, Composite;

Stereo in/out: (2) 5-pin MCO;

Control: (1) DB9 F (RS-232);

Computer input/output: (2) HD15 F

**Power** — Input: 100–240 VAC, 50–60 Hz, 1 A, autosensing, external; Output: 5 VDC; 4 A, 20 W (maximum)

**Size** — 1.7" H x 8.7" W x 10.4" D (4.3 x 22.1 x 26.4 cm)

**Weight** — 2.6 lb. (1.2 kg)

## WHAT'S INCLUDED

- ◆ (1) wallmount power supply
- ◆ (2) 5-pin MCO female connectors
- ◆ (1) CD-ROM containing Remote Control Software

Item	Code
Video to VGA Converter with Component Input	AC212A