

## VGA to Video Converter

## User's Manual

Converts VGA signals to TV signals.

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### FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses, and can radiate radio-frequency energy, and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A computing device in accordance with the specifications in Subpart B of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

### Normas Oficiales Mexicanas (NOM) Electrical Safety Statement INSTRUCCIONES DE SEGURIDAD

1. Todas las instrucciones de seguridad y operación deberán ser leídas antes de que el aparato eléctrico sea operado.
2. Las instrucciones de seguridad y operación deberán ser guardadas para referencia futura.
3. Todas las advertencias en el aparato eléctrico y en sus instrucciones de operación deben ser respetadas.
4. Todas las instrucciones de operación y uso deben ser seguidas.

4. Todas las instrucciones de operación y uso deben ser seguidas.
5. El aparato eléctrico no deberá ser usado cerca del agua—por ejemplo, cerca de la tina de baño, lavabo, sótano mojado o cerca de una alberca, etc.
6. El aparato eléctrico debe ser usado únicamente con carritos o pedestales que sean recomendados por el fabricante.
7. El aparato eléctrico debe ser montado a la pared o al techo sólo como sea recomendado por el fabricante.
8. Servicio—El usuario no debe intentar dar servicio al equipo eléctrico más allá lo descrito en las instrucciones de operación. Todo otro servicio deberá ser referido a personal de servicio calificado.
9. El aparato eléctrico debe ser situado de tal manera que su posición no interfiera su uso. La colocación del aparato eléctrico sobre una cama, sofá, alfombra o superficie similar puede bloquea la ventilación, no se debe colocar en libreros o gabinetes que impidan el flujo de aire por los orificios de ventilación.
10. El equipo eléctrico deber ser situado fuera del alcance de fuentes de calor como radiadores, registros de calor, estufas u otros aparatos (incluyendo amplificadores) que producen calor.
11. El aparato eléctrico deberá ser conectado a una fuente de poder sólo del tipo descrito en el instructivo de operación, o como se indique en el aparato.
12. Precaución debe ser tomada de tal manera que la tierra física y la polarización del equipo no sea eliminada.
13. Los cables de la fuente de poder deben ser guiados de tal manera que no sean pisados ni pellizcados por objetos colocados sobre o contra ellos, poniendo particular atención a los contactos y receptáculos donde salen del aparato.
14. El equipo eléctrico debe ser limpiado únicamente de acuerdo a las recomendaciones del fabricante.
15. En caso de existir, una antena externa deberá ser localizada lejos de las líneas de energía.

16. El cable de corriente deberá ser desconectado del cuando el equipo no sea usado por un largo periodo de tiempo.
17. Cuidado debe ser tomado de tal manera que objetos líquidos no sean derramados sobre la cubierta u orificios de ventilación.
18. Servicio por personal calificado deberá ser provisto cuando:
  - A: El cable de poder o el contacto ha sido dañado; u
  - B: Objetos han caído o líquido ha sido derramado dentro del aparato; o
  - C: El aparato ha sido expuesto a la lluvia; o
  - D: El aparato parece no operar normalmente o muestra un cambio en su desempeño; o
  - E: El aparato ha sido tirado o su cubierta ha sido dañada.

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## 1. Specifications

## Technical Specifications

User Controls	(3) buttons: Source, Mode, and Picture
Connectors	Input: (1) VGA, (1) 3.5-mm jack for audio; Output: (1) VGA loopback; (1) Component; (1) Composite; (1) S-Video; (1) 3.5-mm loopback; L/R 3.5-mm jacks for audio; Power: (1) barrel connector
Resolution	Input: 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, 1600 x 1200; Output: 480p, 720p, 1080i
Video Signals Supported	Input: VGA; Output: YPbPr, VGA, AV/S-Video
Power	5-VDC, 1-A, 5-W power adapter
Dimensions	1"H x 4.9"W x 3.56"D (2.5 x 12.5 x 9 cm)
Weight	0.35 lb. (0.16 kg)

### 2. Overview

#### 2.1 Introduction

The VGA-to-Video Converter with Audio converts and scales VGA signals to TV signals. It does not require any external software and supports high-definition output. Use it to display PC games, multimedia, or Internet on TV.

#### 2.2 Features

- Plug-and-play, requires no external software, and is compatible with any operating system.
- 2D flicker provides perfect static image quality.
- Supports five input resolutions: 640 x 480, 800 x 600, 1024 x 768, 1280 x 1024, and 1600 x 1200.
- Adjustable brightness, contrast, and saturation.
- Supports YPbPr, VGA, and AV/S-Video output.
- Uses 5-W maximum power.

#### 2.3 System Requirements

- Standard VESA RGB input (analog).

*NOTE: For output audio, an amplified speaker is required.*

#### 2.4 What's Included

Your package should include the following items. If anything is missing or damaged, contact Black Box Technical Support at 724-746-5500 or [info@blackbox.com](mailto:info@blackbox.com).

- VGA-to-Video Converter with Audio
- 5-VDC, 1-A, 5-W power supply
- VGA cable
- YPbPr cable
- Composite w/audio cable
- 3.5-mm audio cable
- This user's manual



2.5 Hardware Description

Figures 2-1, 2-2, and 2-3 show the front, back, and side panels of the converter. Table 2-1 describes its components.

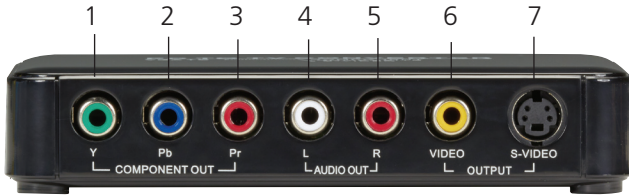


Figure 2-1. Front panel.

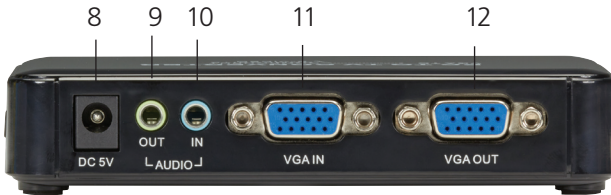


Figure 2-2. Back panel.

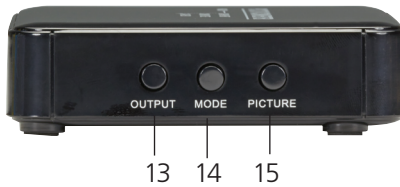


Figure 2-3. Side panel.

Table 2-1. Components.

Number in Figure 2-1, 2-2, or 2-3	Component	Description
1, 2, 3	(3) 3.5-mm connectors	YPbPr
4, 5	(2) 3.5-mm connectors	(1) R, (1) L
6	(1) 3.5-mm connector	Video out
7	(1) 6-pin DIN connector	S-Video
8	(1) Barrel connector	Links to 5-VDC power supply
9	(1) 3.5-mm connector	Audio out
10	(1) 3.5-mm connector	Audio in
11	(1) VGA connector	VGA in
12	(1) VGA connector	VGA out
13	(1) button	Output
14	(1) button	Mode
15	(1) button	Picture

### 3. Installation

Follow these steps to install the converter:

1. Connect the power adapter to the converter.
2. Link the monitor plug to the converter.
3. Attach one end of the VGA cable to the VGA in port on the converter, and connect the other end of the VGA cable to the PC display.
4. Connect the component (YPbPr output end) to other machines with the component input end.
5. Attach the Video out (Composite video output end) to other machines with the video input end.
6. Link the S-Video out (S-Video output end) to the PC signal output and connect other devices with the S-Video input end.
7. Connect the Line in (stereo cable input end) with the stereo audio cable to the PC sound card.
8. Connect the Audio out (stereo audio cable input end) to the external speakers (if available) to output sound.
9. Attach the Audio L and R (audio output end) to the external speakers (if available) to output sound. An amplified speaker is required.
10. Turn on the PC and TV.

## 4. Operation

Use the buttons on the converter to operate the unit. Refer to Table 4-1 and Figure 4-1.

**Table 4-1. User controls.**

Number in Figure 4-1	User Control	Description
1	Source button	YPbPr/AV/SV switch
2	Mode button	For YPbPr interface, select 480 p/720p/1080i
3	Picture (Image key)	Select the picture mode: Bright, Vivid, Soft, or Normal.

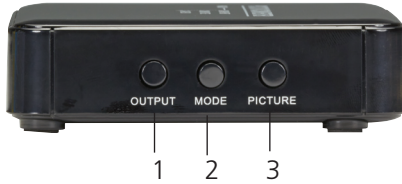


Figure 4-1. Buttons on the unit.

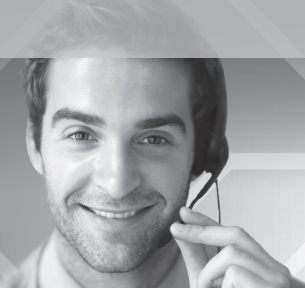






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## About Black Box

Black Box provides an extensive range of networking and infrastructure products. You'll find everything from cabinets and racks and power and surge protection products to media converters and Ethernet switches, all supported by free, live 24/7 Tech Support available in 30 seconds or less.

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AC340A-R2, version 1



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