



Hall Research Technologies, Inc.

Model VHD-HDMI

PC Video or Component Video (YPbPr) to HDMI™ Converter with Audio

Allows connection of VGA signal from a PC or the YPbPr signal from a DVD player to connect to the HDMI input of a Plasma or LCD screen




VHD-HDMI User's Manual

UMA1099, Rev. n/c May 2006

**CUSTOMER
SUPPORT
INFORMATION**

Order toll-free in the U.S. 800-959-6439
FREE technical support, Call 714-641-6607 or fax 714-641-6698
Mail order: Hall Research Technologies, 1163 Warner Ave. Tustin, CA 92780
Web site: www.hallresearch.com • E-mail: info@hallresearch.com

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1.0 General

Thank you for purchasing Hall Research Technologies' Model VHD-HDMI VGA Video or Component Video (YPbPr) to HDMI Converter with Audio. The VHD-HDMI is used to connect the VGA video signal from a PC or the YPbPr signal from a DVD player or similar device to connect to the HDMI input of a Plasma or LCD screen. The unit takes advantage of HDMI cable's ability to also embed the audio in the same cable with video.

In combination with Hall Research Model SW-HDMI-3A 3 input HDMI switch, you can mix and select between new HDMI enabled devices and legacy DVD players with Component outputs, or display your PC's video on the screen.

2.0 Features

- Connects computers with analog video output or DVD players with component output to HD ready Plasma, LCD, or DLP TV
- Switch for input format selection (PC-RGB, or Component-YPbPr)
- Compliant with HDMI specifications 1.0
- Supports upto 1600x1200 @ 60 Hz VGA input or upto 1080p input

3.0 Package Contents

- One VHD-HDMI converter unit
- One Universal Switching Power Supply
- One 3.5mm (1/8") mini-stereo phone jack to 2 RCA cable adapter
- One VGA (HD15) to 3 RCA cable
- This User's Manual

4.0 Controls, Functions, and Indicators



Input Video Format Switch

Set this switch according to the type of input signal connected.

YPbPr Component Video (YPbPr) from a DVD player or Set top Box
RGB Analog Video (VGA) from a PC or Notebook Computer

Input Connector (PC/YPbPr)

Connect your video source to this input. If you are using a PC as a source, you need a male-male VGA cable (not included). If your source is a DVD player, then use the included 3 RCA to HD15 cable. Please make sure to connect the correct color RCA connectors to your source.

Input Power Jack and indicator

Plug the included power supply to this jack. The red LED should come on indicating power is on. NEVER SUBSTITUTE ANY OTHER POWER SUPPLY AS THIS MAY DESTROY THE UNIT.

Left and Right Audio Input Connectors

Connect your audio source to this input. If you are using a PC as a source, you can use the supplied cable to make the connection. If your source is a DVD or similar device, you need a RCA to RCA cable to make the connections.

HDMI Output Connector

This is the Digital output that contains the video and the audio. Connect this to your display device using HDMI cables (cable not supplied). Contact Hall Research Technologies if you need to purchase high quality cables. Note that if your distance is longer than 15 feet, you will need a HDMI signal booster such as HRT's Model EX-HDMI-2A extender.

5.0 Contacting Hall Research and Shipping/Packaging

Contact HRT Support at 714-641-6607 or via email or web. Before you do, make a record of the history of the problem. We will be able to provide more efficient and accurate assistance if you have a complete description. If you need to ship your converter for repair, make sure to get a Return Material Authorization (RMA) number first.

6.0 Specifications

Video Input	RGB@0.7 Vp-p, HV@5 Vp-p, Y@1 Vp-p PbPr@0.7 Vp-p
Resolutions	Output resolution is the same as input resolution. <u>Supported PC Resolutions</u> VGA@60, 72, 75, 85 – SVGA@60, 72, 75, 85 XGA@60, 70, 75, 85 – SXGA@60, 75, 85 UXGA@60 1152@70, 75, 85 – XGAi@87 <u>Supported Component (YPbPr) Resolutions</u> 480i@60 - 576i@50 - 576p@60 - 720p@50, 60 1080i@50, 60 – 1080p@30, 50, 60
Audio Input	Stereo Analog line-level
Temperature	Operating: 32 to 122°F (0 to 50°C); Storage: –40 to +185°F (–40 to +85°C)
MTBF	95,000 hours (calculated estimate)
Power	From utility-power (mains) outlet, through included external power supply. Voltage: 5 V DC Center-Positive 2000 ma
Size	1.2" High x 3.0" Wide x 4.2" Deep
Weight	8 Ounces

7.0 Connection Block Diagram

