Avenview

Component / VGA with Audio to HDMI Converter

Model #: C-COMPVGA-HDMI

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Section 1: Getting Started

1.1   Important Safeguards

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
    - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
    - Repair or attempted repair by anyone not authorized by us.
    - Any damage of the product due to shipment.
    - Removal or installation of the product.
    - Causes external to the product, such as electric power fluctuation or failure.
    - Use of supplies or parts not meeting our specifications.
    - Normal wear and tear.
    - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

1.2   Safety Instructions

The Avenview C-COMPVGA-HDMI, Component with Audio to HDMI Converter has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the C-COMPVGA-HDMI should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- Do not dismantle the housing or modify the module.
- Dismantling the housing or modifying the module may result in electrical shock or burn.
- Refer all servicing to qualified service personnel.
- Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Have the module checked by a qualified service engineer before using it again.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.

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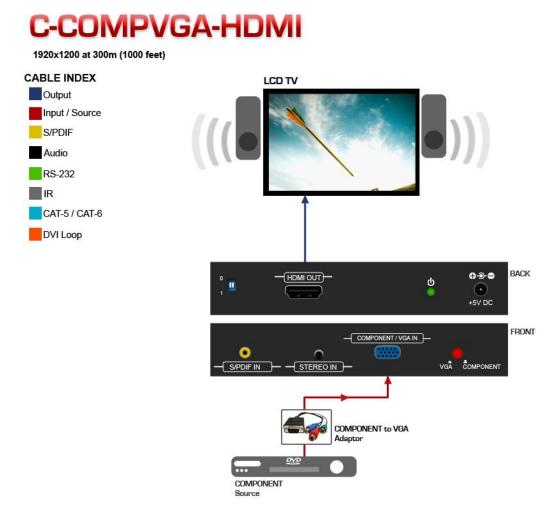## 1.3   Regulatory Notices Federal Communications Commission (FCC)

This equipment has been tested and found to comply with Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.
Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

1.4   Introduction

Avenview C-COMPVGA-HDMI, Component / VGA with Audio to HDMI Converter provides an easy and instant approach for converting Component (YPbPr) and/or VGA with either digital S/PDIF or analog stereo audio to HDMI. With C-COMPVGA-HDMI converter, Component and/or VGA based devices such as PC, set-top-boxes can connect to HDMI TV or projector at low cost.

- HDMI 1.2a compliant
- Support VGA resolution of up to UXGA (1600x1200 or WUXGA (1920x1200)
- Supports HD (1080i / 720p) component video
- Coaxial S/PDIF audio input
- Stereo analog audio input
- Front panel LED indicators
- Easy installation

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C-COMPVGA-HDMI

1920x1200 at 300m (1000 feet)

CABLE INDEX
- ■ Output
- ■ Input / Source
- ■ S/PDIF
- ■ Audio
- ■ RS-232
- ■ IR
- ■ CAT-5 / CAT-6
- ■ DVI Loop

LCD TV

BACK

HDMI OUT

+5V DC

FRONT

COMPONENT / VGA IN

S/PDIF IN   STEREO IN

VGA   COMPONENT

COMPONENT to VGA
Adaptor

DVD

COMPONENT
Source

1.5   Package Contents

Before you start the installation of the converter, please check the package contents.

- C-COMPVGA-HDMI   x 1
- Power Adapter (+5VDC, 2A)   x 1
- User's Manual   x 1

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1.6   Before Installation

- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.

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1.7   Panel Description

1.7.1 Front Panel

1.	**S/PDIF IN**	2.	**STEREO IN**
3.	**Component or VGA IN**	4.	**Component or VGA Select Button**

1.7.2 Rear Panel

1.	**Mode Switch**	2.	**HDMI OUT**
3.	**Power Indicator**	4.	**5V DC Power Jack**

1.7.3 DIP Switch

PIN #		Mode
1	**OFF ⬆**	**Reset to Factory default EDID**
1	**ON ⬇**	**Learn & store connected monitor's EDID**
2	**OFF ⬆**	**Analog Audio Input**
2	**ON ⬇**	**S/PDIF Audio Input**

1.8 Installation

To setup Avenview C-COMPVGA-HDMI follow these steps for connecting to a device:

1. Power off display source such as DVD Player, Set-top box, PC etc.
2. Connect VGA or Component source to the video input
3. Connect S/PDIF or Stereo Audio source to RCA Jack or 3.5mm Jack
4. Connect VGA/Component Adapter to VGA or Component input of the device
5. Connect HDMI cable to device and TV or projector
6. Plug in 5V DC power cord to power jack of C-HDMI-COMPVGA
7. Power on C-COMPVGA-HDMI converter
8. Power on VGA / Component source and display with HDMI input.

S/PDIF format is dependent on the embedded digital audio part in the HDMI stream. The S/PDIF receiver must be able to recognize the input S/PDIF format. C-HDMI-DVIA only separates the digital audio in HDMI stream and bypasses this decoded audio to the output.

This version does NOT support 8 Channel analog audio applications

S/PDIF audio input can support 2 out of 8 channel audio inputs. S/PDIF audio only supports 48 KHz audio sample rate.

Section 2: Specifications

Item	Description
Units	C-COMPVGA-HDMI
Unit Description	Component/VGA with Audio to HDMI Converter
HDMI Compliance	HDMI 1.2a
Video Bandwidth	165MHz (4.95Gbps)
Video Support	**Single Link:** 1080p 60, WUXGA (1920x1200@60Hz) **Component Video:** 720p / 1080i
Audio Support	Stereo Audio
Output Video Signal	1.2 Volts (peak-to-peak)
Output DDC Signal	5 Volts (peak-to-peak, TTL)
Input	1 x VGA 1 x RCA 1 x 3.5mm
Output	HDMI x 1
HDMI Connector	Type A (19 pin female)
VGA Connector	HD-15 (15-pin D-sub female)
RCA Connector	Coaxial S/PDIF Digital Audio (PCM 48kHz)
3.5mm Audio Connector	Analog Stereo Audio
Dimensions (L x W x H)	5" X 4" x 1"
Power Supply	5V 2A DC
Power Consumption	4 Watts (max)

Environmental

Item	Description
Operating Temperature	32˚ ~ 104˚F (0˚ to 40˚C)
Storage Temperature	-4˚ ~ 140˚F (-20˚ ~ 60˚C)
Relative Humidity	20~90% RH (no condensation)

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2.1   Supported Resolutions

2.1.1   VGA

Supported Mode	Resolution	Supported Mode	Resolution
VESA	640x400 @85Hz	VESA	1152x864 @60Hz
VESA	720x400 @85Hz	VESA	1152x864 @75Hz
VESA	640x480 @60Hz	VESA	1152x864 @55Hz
VESA	640x480 @72Hz	VESA	1280x768 @60Hz
VESA	640x480 @75Hz	VESA	1280x768 @75Hz
VESA	640x480 @85Hz	VESA	1280x768 @85Hz
VESA	800x600 @60Hz	VESA	1280x960 @60Hz
VESA	800x600 @72Hz	VESA	1280x960 @85Hz
VESA	800x600 @75Hz	VESA	1280x1024 @60Hz
VESA	800x600 @85Hz	VESA	1280x1024 @85Hz
VESA	1024x768 @60Hz	VESA	1600x1200 @60Hz
VESA	1024x768 @75Hz	VESA	1920x1200 @60Hz
VESA	1024x768 @85Hz		

2.1.2   Component Video (YPbPr)

Supported Mode	Resolution
EIA	720x480p @59.94 (60)Hz
EIA	720x576p @ 50Hz
EIA	1280x720p @59.94 (60)Hz
EIA	1920x1080i @59.94 (60)Hz
NTSC	712x484
PAL	702x574

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Notice

1. Only HDMI enabled TV sets with under-scan/over-scan support, the full active video can be accurately displayed. Some HDMI equipped TV sets may not support this feature. If under-scan/over-scan* is NOT supported, the top, bottom, left and right border of the active video may be screened, and the S/PDIF audio may not sound right.
2. Analog stereo audio can merely support 2-channel audio. This version does NOT support 8-channel analog audio applications.
3. S/PDIF audio input supports the main 2-channel audio input
4. S/PDIF supports only 48kHz audio sample rate. Other than this rate, the input digital audio should be adjusted to 48kHz in order to get audio signal correctly sent.

*The **under-scan** mode displays the full video frame, which reveals content on the edge that is recorded.*

*In **overs-can**, the field monitor zooms in to the area that would be visible on most televisions.*

Set the field monitor to under-scan if your video will be viewed on a computer monitor or shown with a projector and also to look for light stands, microphones, and other unwanted objects on the edges of your shot. Set it to over-scan to see how the video will look on a television.

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