



Control Your Video

**VIDEO WALLS VIDEO PROCESSORS  
VIDEO MATRIX SWITCHES  
EXTENDERS SPLITTERS WIRELESS  
CABLES & ACCESSORIES**

## **HDMI DOWN CONVERTER TO CVBS/S- VIDEO WITH PAL/NTSC**



**Model #: CPRO-HDM-CVIDA**

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## Product Application & Market Sectors



Corporate



House Of Worship



Military



Residential



Education



Industrial



Medical



Aviation



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## SECTION I: GETTING STARTED

### I.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.

### I.2 SAFETY INSTRUCTIONS

The Avenview CPRO-HDM-CVIDA Converter has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the CPRO-HDM-CVIDA 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.



## 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.

Warning symbols	Description
	<p>ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.</p>
	<p>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.</p>
	<p>THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIROMENT.</p>

	<p><b>⚠ WARNING</b></p>
	<p>Read &amp; understand user guide before using this device.</p> <p>Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.</p>



## 2. INTRODUCTION

The The Avenview CPRO-HDM-CVIDA Converter can convert the digital signal HDMI (or DVI) source to analog signal of NTSC or PAL system, with L/R stereo audio. It supports S-Video and Composite video outputs, it also provides an HDMI bypass output to deliver the original signal, and a Coaxial output to send S/PDIF digital audio to an amplifier. The device also has manual selection of underscan and overscan on output image to the display at the correct proportion and viewing experience. Bonus Feature Apple Mode switch which allows user to use Apple TV or other Apple devices as source equipment.

- HDMI, HDCP and DVI compliant
- Converts video signal from HDMI source to NTSC or PAL signal (selectable)
- Converts digital audio from HDMI source to analog stereo audio
- Input resolutions, from HD-480i to 1080p@60Hz
- Input resolutions, PC from VGA@60Hz to WUXGA@60 Hz (RB)
- Coaxial input audio sample rate 44.1 kHz, 48 kHz and 96 kHz
- Output image overscan or underscan switch ensure best image size on screen
- Apple Mode switch guarantees the use of Apple devices



## 2.1 PACKAGE CONTENTS

Before you start the installation of HDM-SHAREPRO-IP, please check the STANDARD package contents.

1	CPRO-HDM-CVIDA	X 1	
2	POWER ADAPTER (5VDC)	X 1	
3	USER'S MANUAL	X 1	

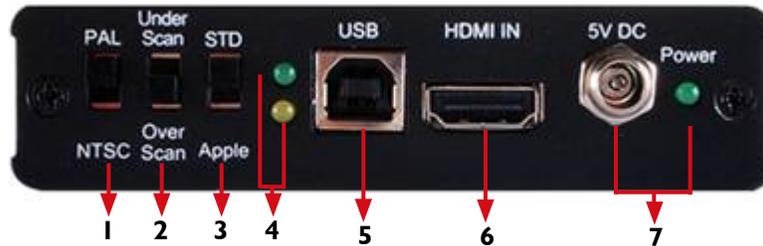
## 2.2 BEFORE INSTALLATION

- 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.



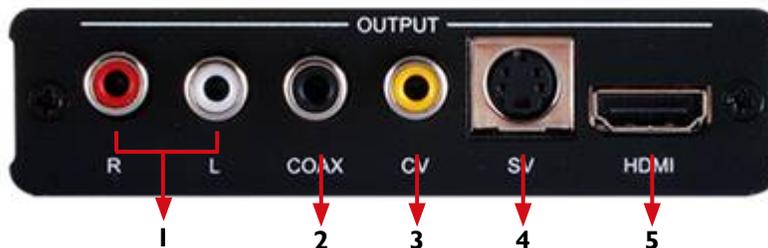
## 2.3 DEVICE DESCRIPTION & LAYOUT

### 2.3.1 Front Panel (CPRO-HDM-CVIDA)



1. <b>PAL/NTSC Switch:</b> Select required format for output display.	2. <b>Underscan/Overscan Switch:</b> Select required screen for output
3. <b>3 STD/Apple Switch:</b> Switch to Apple mode when an Apple device is connected.	4. <b>LED:</b> Yellow LED illuminate when Apple Mode is selected, Green for STD.
5. <b>USB:</b> This slot is reserved for firmware update only.	6. <b>HDMI IN:</b> Connect to HDMI output on any source. (e.g. PC/Laptop or Blu-Ray Player)
7. <b>5V DC &amp; Power LED:</b> Connect the 5V DC power supply into the unit. The LED will illuminate when power supply is connected.	

### 2.3.2 Rear Panel (CPRO-HDM-CVIDA)



1. <b>R/L OUTPUT:</b> Connect to active speaker with RCA to synchronize video output with HDMI.	2. <b>COAX OUTPUT:</b> Connect with active speaker using coaxial cable to synchronize with video output.
3. <b>CV OUTPUT:</b> Connect to Composite Video input of a display or recording device.	4. <b>SV OUTPUT:</b> Connect to S-Video input of a display or recording device.
5. <b>HDMI Bypass OUTPUT:</b> Connect to the HDMI input of a display.	

**Important** Before starting the installation please ensure that all devices are powered OFF



### 3. INSTALLATION

Please ensure all the package contents are all received.

To setup Avenview CPRO-HDM-CVIDA follow these steps for connecting directly to a Monitor as a CONVERTER:

1. Connect CPRO-HDM-CVIDA to SOURCE with HDMI cable such as PC or DVD;
2. Connect your CVBS or S-VIDEO display (such as a CRT or LCD TV) to the OUTPUT PORTS CVBS (Composite port) or S-video;
3. Connect either Analog Audio via R/L RCA Jacks or Digital Audio via COAX output to speaker or Amplifier;
4. Power on all devices after all connections to ensure proper connectivity.
5. To adjust the image for perfect viewing refer to page 7

### CABLE SPECIFICATIONS



To achieve best results with our CPRO-HDM-CVIDA we highly recommend a premium quality 26 or 24 AWG HDMI cable with the below specifications to maintain signal integrity and distances.

#### FEATURES:

- Length: 5m (16ft) to 15m (50ft)
- Bandwidth: 10.2 Gbps data transfer rate
- Supports Resolution: Up to 3840x2160 @ 24Hz and 4096x2160 @ 24Hz, 1080p @ 24Hz / 50/60Hz/3D
- Conductor gauge: 26 / 24 AWG
- Deep Color
- 3D Capable
- CEC
- Ethernet Channel
- Audio Return Channel
- Connector 1: HDMI (Type A) Male
- Connector 2: HDMI (Type A) Male

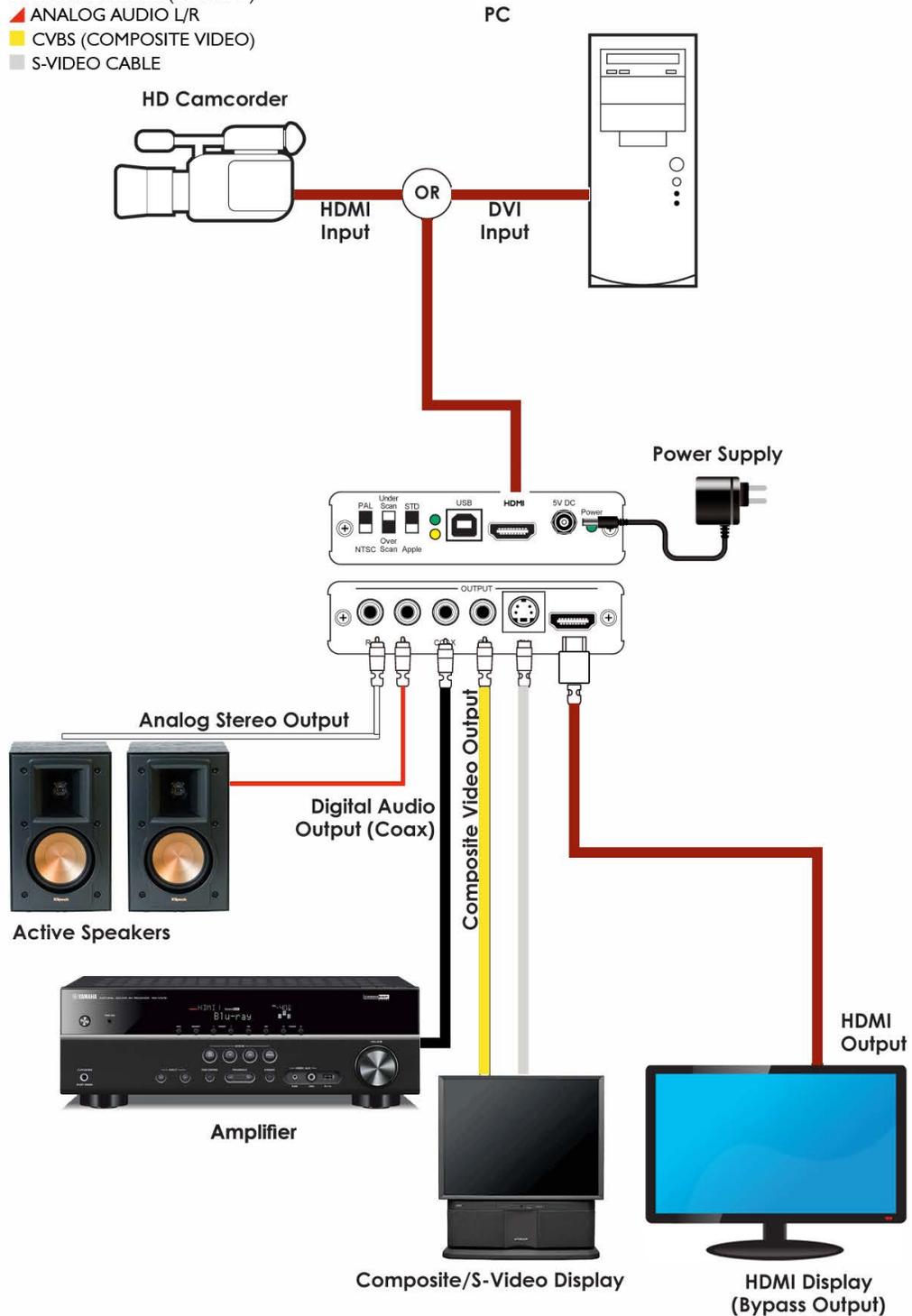


### 3.1 APPLICATION DIAGRAM

## CPRO-HDM-CVIDA

### CABLE INDEX

- HDMI CABLE
- DIGITAL AUDIO (OPTICAL)
- ▲ ANALOG AUDIO L/R
- CVBS (COMPOSITE VIDEO)
- S-VIDEO CABLE



## 4. SUPPORTED RESOLUTION

HD Resolutions	PC Resolutions
480i/p@60	640x4480@60,72,75,85
576i/p@50	720x400@70
720p@50/60	800x600@56,60,72,75,85
1080p@24	1024x768@60,70,75,85
1080i@50/60	1152x864@70,75,85
1080p@50/60	1280x720@60(CVT)
	1280x768@60,60(RB)
	1280x800@60,60(RB),75
	1280x960@60
	1280x1024@60,75
	1280x1024@60,75
	1366x768@60,60(RB),75
	1440x900@60,60(RB),75
	1600x900@60(RB)
	1600x1200@60
	1680x1050@60,60(RB)
	1920x1200@60(RB)

**PLEASE NOTE:** DVI source input does not support 480i and 576i.

### 4.1 Supported Audio

AV Source	HDMI with Embedded Audio
<b>Audio Output</b>	
HDMI Bypass	Yes
Coaxial Audio	Yes
Stereo Audio	Yes (Input audio supports LPCM 2CH)

### 4.2 Video and Audio Conversion / Bypass Options

Input	Both video and audio from HDMI source
OUTPUT	HDMI → Bypass, output original video and audio from HDMI
	COAXIAL → output digital audio from HDMI
	CV+R/L Audio → Output analog video/audio converted from HDMI
	SV+R/L Audio → Output analog video/audio converted from HDMI



## 5. SPECIFICATIONS

ITEM	DESCRIPTION
<b>UNITS</b>	CPRO-HDM-CVIDA
<b>UNIT DESCRIPTION</b>	HDMI DOWN CONVERTER TO CVBS/SVIDE
<b>HDMI COMPLIANCE</b>	Yes
<b>HDCP COMPLIANCE</b>	Yes
<b>SUPPORTED RESOLUTIONS</b>	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz
<b>AUDIO SUPPORT</b>	Stereo Audio
<b>INPUT</b>	1 x HDMI type A, 1 x USB type-B
<b>OUTPUT</b>	1 x HDMI type A, 1 x Coaxial, 1 x Stereo R/L RAC jack, 1 x Composite-Video RCA jack, 1 x S-Video
<b>HDMI CONNECTOR</b>	Type A (19 pin female)
<b>RCA CONNECTOR</b>	4 x RCA Female jack
<b>POWER ADAPTER</b>	DC 5V/2.6A
<b>POWER CONSUMPTION</b>	3.5W
<b>DIMENSION L X W X H</b>	4" x 5.75" x 1"
<b>WEIGHT</b>	302g

### Environmental

<b>OPERATING TEMPERATURE</b>	32° ~ 104°F (0° to 40°C)
<b>STORAGE TEMPERATURE</b>	-4° ~ 140°F (-20° ~ 60°C)
<b>RELATIVE HUMIDITY</b>	20~90% RH (no condensation)

### PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

PERFORMANCE RATING		TYPE OF CATEGORY CABLE		
WIRING	SHIELDING	CAT5	CAT5E	CAT6
<b>SOLID</b>	UNSHIELDED (UTP)	★★★	★★★★★	★★★★★
	SHIELDED (STP)	★★★	★★★	★★★★★
<b>STRANDED</b>	UNSHIELDED (UTP)	★	★★	★★
	SHIELDED (STP)	★	★	★★
<b>TERMINATION</b>		PLEASE USE EIA/TIA-568-B TERMINATION (T568B) AT ANY TIME		



## Avenview Warranty Certificate

AVENVIEW CORP. ("Avenview") warrants Avenview-branded product(s) contained in the original packaging against defects in materials and workmanship when used normally in accordance with Avenview's enclosed manual guidelines for a period of THREE (3) YEARS from the date of original retail purchase - Warranty Period. Avenview's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

**LABOR:** During the Warranty Period of THREE (3) YEARS, Avenview will repair or replace the product(s) at no cost using new or used parts equivalent to novel performance and reliability if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs, please contact [support@avenview.com](mailto:support@avenview.com).

**PARTS:** During the Warranty Period of THREE (3) YEARS, Avenview will supply new or rebuilt replacements in exchange for defective parts of the product(s) at no cost if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Parts applicable to product(s) after Warranty Period. For part(s) costs, please contact [support@avenview.com](mailto:support@avenview.com).

To obtain Warranty: (a) proof of purchase in the form of a bill of sale or receipted invoice reflecting that the registered product(s) is within warranty period must be presented to obtain warranty service; (b) product(s) must be registered at time of purchase. Failure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Avenview's original packaging or in packaging pertaining equal degree of protection to Avenview's. Both Avenview and purchaser are responsible for freight charges and brokerages when shipping the product(s) to the receiver.

### NOT COVERED BY THIS WARRANTY

This warranty does not apply to any non-Avenview branded product(s); non-registered Avenview product(s). This warranty does not apply: (a) to cosmetic damage, including but not limited to scratches, dents and broken cords; (b) to damage caused by use with another product; (c) to damage caused by accident, abuse, misuse, liquid contact, fire, earthquake or other external cause; (d) to damage caused by operating the Avenview product(s) outside Avenview's manuals or guidelines; (e) to damage caused by service performed by anyone who is not a representative of Avenview or an Avenview authorized personnel; (f) to defects caused by normal wear and tear or otherwise due to the normal aging of the Avenview product(s), or (g) if any serial number has been removed or defaced from the Avenview product(s).

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