

User Manual

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HDMI Converter

Model No. HCV0101

Dear customer

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

1.0 INTRODUCTION

This kind of the Converter is a VGA video converter. It converts VGA input into HDMI to allow PC users to show their image not only on the PC's monitor, but also on TV, to have a large display. The conversion is along with the R/L audio. HCV0101 offers solutions for digital entertainment center, HDTV retail and show site, HDTV, STB, DVD and Projector factory, noise space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.

1.2 FEATURES

The series of the HDMI Amplifier Switcher have many features that enable them to perform in a superior manner. Among those features you will find:

- Easy to Use: Install in seconds, no need of setting.
- Conversion: It could convert PC's VGA video and R/L audio into complete HDMI.
- Extra VGA and R/L audio outputs: the outputs could be connected back to PC's monitor and speakers.
- Manual adjusting button: used for position the image precisely under some extreme condition.
- HDCP compliant.

Converter Unit	FCC,CE
Power Supply	CE,FCC
Accessories Adaptor	
AC Power Adaptor	US standard, UK standard and so on
User Manual	

Note: Specifications are subject to change without notice.

3.0 PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- Main unit: P/N_HCV0101
- 5V DC Power Supply
- User's Manual

4.0 CONNECT AND OPERATE

Before installation, please make sure all devices you wish to connect have been turned off

- 1) Connect the VGA video and R/L audio from computer to HCV0101. (Input cables are optional)
- 2) Connect the HDMI output from HCV0101 to the TV which has HDMI input.
- 3) Connect the VGA and R/L audio output of HCV0101 back to the computer's monitor and speaker if necessary.
- 4) Insert the DC side of 5v power supply into VH0101 and then connect the AC side of the power supply into the wall outlet.
- 5) Power on the computer and TV, choose the input of TV to it's HDMI channel.
- 6) The image does not need to be adjusted, the HCV0101 will position it automatically, the user may adjust the horizontal position under some extreme condition.

Attention: Input / Extend cable path.

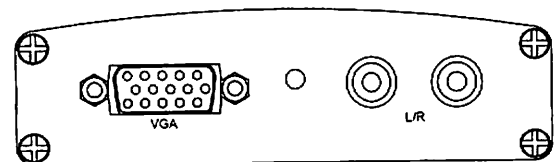
2.0 SPECIFICATIONS

Signal Inputs/Output	0.5-1.0 volts p-p
Input Video Signal	5 volts p-p (TTL)
Input DDC Signal	1600X1200, 1080P
Maximum Single Link Range	HDMI - HDCP1.0/1.1
Output Video	HDMI - HDCP1.0/1.1
VGA	640x480 60Hz 72Hz 75Hz 800x600 60Hz 72Hz 75Hz 1024x768 60Hz 70Hz 75Hz 1280x1024 60Hz 1600x1200 60Hz
DTV/HDTV	480i/576i/480p/576p/720p/1080i/1080p
Digital Signal I/O	
HDMI Compliance	HDMI 1.3
Operating Frequency	
Frequency	Up to 165MHz
Video Amplifier Bandwidth	2.5Gbps/250MHz
Resolutions(HDTV)	
Interlaced(50&60Hz)	480i, 576i, 1080i
Progressive(50&60Hz)	480p, 576p, 720p, 1080p
Mechanical	
Size(W-H-D)	89mmW x 29mmH x 68mmD
Weight(Net)	0.68kgs
Warranty	
Limited Warranty	1 Year Parts and Labor
Environmental	
Operating Temperature	0 °C to +70 °C
Operating Humidity	5% to 90 % RH (no condensation)
Storage Temperature	-10 °C to +80 °C
Storage Humidity	10% to 85 % RH (no condensation)
Power Requirement	
External Power Supply	5V DC@1A
Regulatory Approvals	

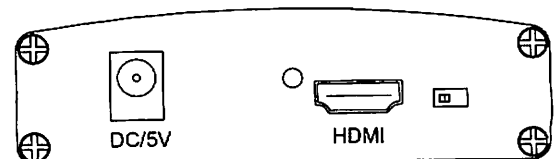
5.0 PANEL DESCRIPTIONS

Please study the panel drawings below and become familiar with the signal input(s), output(s) and power requirements.

Input



Output



6.0 MAIN FEATURES**Analog Video Input Front End Interface**

Triple ADC with 12 - 140 MHz Sampling Rate

Integrated line locked PLL generates pixel clock from HSYNC

Integrated 5-bit pixel clock phase adjustment for precise sample timing control

Integrated clamp with timing generator

Integrated Brightness & Contrast controls

Integrated precision voltage reference

Compatible with VGA through SXGA RGB graphics signals

Mid-Scale Clamping

Fully Sync Processing

Black and mid-level precision clamp and calibration*

Input video mode status detection

Digital Video Input Front End Interface

IRGB 444 8/10/12 bits/channel 1/ 3 channel

Multi-format digital input up to 200M Pixel/sec

Video data input pins re-order function

Input video mode status detection

Inverse Gamma Correcting (De-Gamma)

Programmable Data Enable (DE) generator

Programmable Vertical Sync (VS) generator

Programmable Horizontal Sync (HS) generator

Digital Data Link Engine

HDMI 1.1/1.0

HDCP 1.1/1.0

DVI 1.0

Supports video optional formats : EIA/CEA-861-B

Analog TMDS Interface

TMDS data link up to 2.0G-bit/s each

channel including 3 data channel and 1 clock

channel Hot Plug detection

TMDS Clock Channel Plug detection

7.0 WARNIN**To Reduce the risk of FIRE,ELECTRIC SHOCK OR PRODUCT DAMAGE:**

- 1) DO NOT EXPOSE THIS APPARATUS TO RAIN, MOISTURE, DRIPPING OR SPLASHING AND THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHALL BE PLACED ON THE APPARATUS.
- 2) DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANOTHER CONFINED SPACE. ENSURE THE UNIT IS WELL VENTILATED.
- 3) TO PREVENT RISK OF ELECTRIC SHOCK OR FIRE HAZARD DUE TO OVERHEATING, DO NOT OBSTRUCT THE UNIT'S VENTILATION OPENINGS WITH NEWSPAPERS, TABLECLOTHS, CURTAINS, AND SIMILAR ITEMS.
- 4) DO NOT INSTALL NEAR ANY HEAT SOURCES SUCH AS RADIATORS, HEAT REGISTERS, STOVES, OR OTHER APPARATUS (INCLUDING AMPLIFIERS) THAT PRODUCE HEAT.
- 5) DO NOT PLACE SOURCES OF NAKED FLAMES, SUCH AS LIGHTED CANDLES, ON THE UNIT.
- 6) CLEAN THIS APPARATUS ONLY WITH DRY CLOTH.
- 7) UNPLUG THIS APPARATUS DURING LIGHTNING STORMS OR WHEN UNUSED FOR LONG PERIODS OF TIME.
- 8) PROTECT THE POWER CORD FROM BEING WALKED ON OR PINCHED PARTICULARLY AT PLUGS.
- 9) ONLY USE ATTACHMENTS/ACCESSORIES SPECIFIED BY THE MANUFACTURER.
- 10) REFER ALL SERVICING TO QUALIFIED SERVICE PERSONNEL.

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner or benzene to clean this unit.