

# WyreStorm

HDMI Converter

Model No. CONV0001

Operating Instructions (P/N of this Instructions is INS-CONV0001)



## FEATURES

- 1) Easy to Use: Install in seconds, no need for setting.
- 2) Conversion: It can convert YPbPr and SPDIF audio into complete HDMI.
- 3) HDCP compliant.

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.

## NOTICE

Wyrestorm reserves the right to make changes in the hardware, packaging and any accompanying documentation without prior written notice.

## WARNING:

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK OR PRODUCT DAMAGE:

- 1) DO NOT EXPOSE THIS UNIT TO WATER OR MOISTURE OF ANY KIND.
- 2) DO NOT INSTALL OR PLACE THIS UNIT IN A BOOKCASE, BUILT-IN CABINET OR IN ANY OTHER CONFINED SPACE. MAKE SURE 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.
- 4) DO NOT INSTALL NEAR ANY HEAT SOURCE OR OTHER UNITS THAT MAY PRODUCE HEAT.
- 5) DO NOT PLACE UNIT NEAR FLAMES.
- 6) CLEAN THIS UNIT ONLY WITH DRY CLOTH.
- 7) UNPLUG THIS UNIT 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.

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## INTRODUCTION

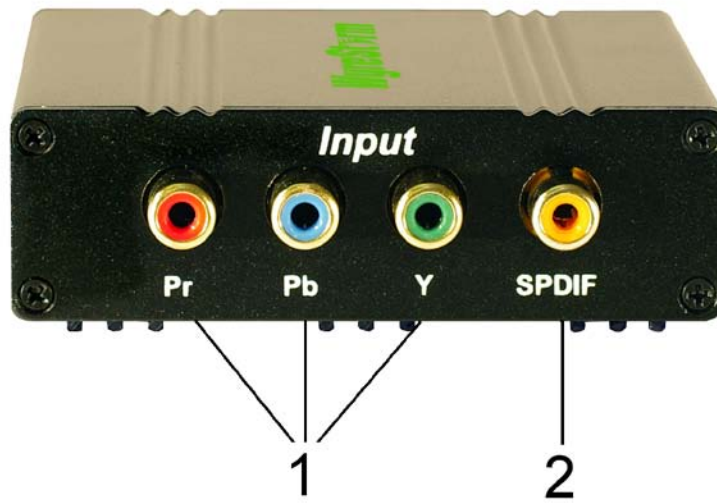
Wyrestorm's CONV0001 is a component video (YPbPr) converter. It converts YPbPr input into HDMI output. CONV0001 has the ability of buffering and amplifying. It achieves long-distance transmission of HDMI signal of more than 15 meters.

CONV0001 offers solutions for digital entertainment center, HDTV retail and show sites, HDTV, STB, DVD and Projector factories with noise, space and security concerns, data center controls, information distribution, conference room presentations, schools and corporate training environments.

## PACKAGE CONTENTS

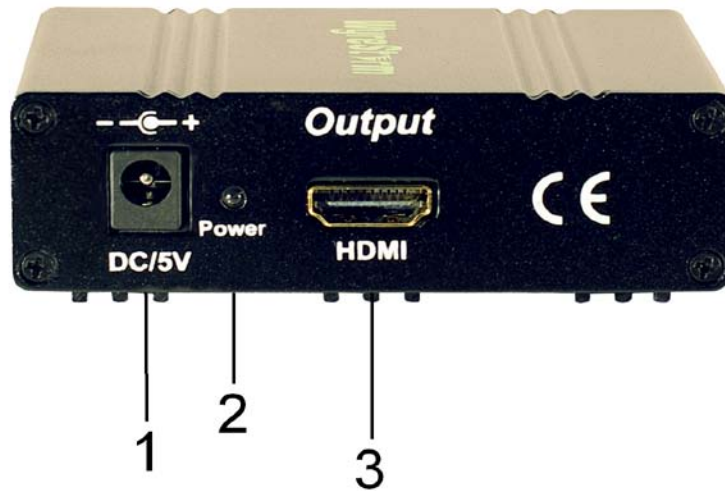
- 1) Main unit. P/N\_ CONV0001
  - 2) 5V DC Power Adapter, P/N\_VDC0502
  - 3) Operating Instructions, P/N\_INS-CONV0001
- \* HDMI cables are optional.

## PANEL DESCRIPTIONS



- 1) YPbPr video input.
- 2) SPDIF audio input.

## Output Panel



- 1) Power input.
- 2) Power indicator
- 3) HDMI output.

## CONNECT AND OPERATE

- 1) Connect the input sources into CONV0001. (Input cables are optional)
- 2) Connect the HDMI device into the HDMI Output slot in the back of CONV0001.
- 3) Insert the DC side of 5v power supply into CONV0001 and then connect the AC side of the power supply into the wall outlet.

## MAIN FEATURES OVERVIEW

- 1) Analog Video Input Front End Interface
- 2) Triple ADC with 12 - 140 MHz Sampling Rate
- 3) Integrated line locked PLL generates pixel clock from HSYNC
- 4) Integrated 5-bit pixel clock phase adjustment for precise sample timing control
- 5) Integrated clamp with timing generator
- 6) Integrated Brightness & Contrast controls
- 7) Integrated precision voltage reference
- 8) Compatible with VGA through SXGA RGB graphics signals, and component TV,
- 9) DTV and HDTV
- 10) Mid-Scale Clamping
- 11) Fully Sync Processing
- 12) Black and mid-level precision clamp and calibration\*
- 13) Input video mode status detection
- 14) Digital Video Input Front End Interface
- 15) ITU-R BT. 656 ..... 8 bits/channel ..... 1 channel
- 16) RGB 444 ..... 8/10/12 bits/channel ..... 1/ 3 channel
- 17) YCbCr 444 ..... 8/10/12 bits/ channel ..... 1/ 3 channel
- 18) YCbCr 422 ..... 8/10/12 bits/ channel ..... 1/ 2 channel
- 19) Multi-format digital input up to 200M Pixel/sec
- 20) Video data input pins re-order function
- 21) Input video mode status detection
- 22) YCbCr Color format conversion (422 to 444)
- 23) Color space conversion (YCbCr to RGB)
- 24) Inverse Gamma Correcting (De-Gamma)
- 25) Programmable Data Enable (DE) generator
- 26) Programmable Vertical Sync (VS) generator
- 27) Programmable Horizontal Sync (HS) generator
- 28) Digital Audio Input Front End Interface
- 29) I2S input interface Up to 8 channel 192k sample rate
- 30) S/PDIF input interface
- 31) IEC60958 PCM audio
- 32) IEC61937 compressed audio
- 33) Digital Data Link Engine
- 34) HDMI 1.1/1.0
- 35) HDCP 1.1/1.0 with external Key link through micro processor
- 36) DVI 1.0
- 37) Supports DTV/ HDTV resolutions: 480i/ 576i/ 480p/ 576p/ 720p/ 1080i/ 1080p
- 38) Supports video optional formats: EIA/CEA-861-B
- 39) Analog TMDS Interface
- 40) TMDS data link up to 2.0G-bit/s each channel
- 41) Including 3 data channel and 1 clock channel
- 42) DDC link base on Micro-processor (suggest 8051uP)
- 43) Hot Plug detection
- 44) TMDS Clock Channel Plug detection

## SPECIFICATIONS

Operating temperature range	-5 to +35. (-41 to +95.)
Operating humidity range	5 to 90 % RH (no condensation)
Power Consumption	10 Watts (max.)
Power Supply	5VDC
Dimensions	89mmW x 29mmH x 68mmD
Mass	0.68 Kg

Note: Specifications are subject to change without notice. Mass and dimensions are approximate.

## MAINTENANCE

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

## PRODUCT SERVICE

- 1) Damage requiring service: The unit should be serviced by qualified service personnel if:
  - a) The DC power supply cord or AC adaptor has been damaged;
  - b) Objects or liquids have gotten into the unit;
  - c) The unit has been exposed to rain;
  - d) The unit does not operate normally or exhibits a marked change in performance;
  - e) The unit has been dropped or the cabinet has been damaged.
- 2) Servicing Personnel: Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.
- 3) Replacement parts: When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other hazards.
- 4) Safety check: After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

## WARRANTY

If your product does not work properly because of a defect in materials or workmanship, Wyrestorm (referred to as “the warrantor”) will, for the length of the period indicated as below, (Parts and Labor (2) Year) which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or

refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” Limited Warranty period there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty period. This Limited Warranty is extended only to the original purchaser and only covers product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

#### Mail-In Service

Please contact our customer service department describing the issue, and a new product will be sent to you immediately with an applicable charge. Please place the damaged product in the new package and send back with the return shipping label provided. Once the damaged product is received, a reimbursement will be provided. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

**IF REPAIR IS NEEDED DURING THE LIMITED WARRANTY PERIOD THE PURCHASER WILL BE REQUIRED TO FURNISH A SALES RECEIPT/PROOF OF PURCHASE INDICATING DATE OF PURCHASE, AMOUNT PAID AND PLACE OF PURCHASE. CUSTOMER WILL BE CHARGED FOR THE REPAIR OF ANY UNIT RECEIVED WITHOUT SUCH PROOF OF PURCHASE.**

#### LIMITED WARRANTY LIMITS AND EXCLUSIONS

1) This Limited Warranty **ONLY COVERS** failures due to defects in materials or workmanship, and **DOES NOT COVER** normal wear and tear or cosmetic damage. The Limited Warranty **ALSO DOES NOT COVER** failures which are caused by products not supplied by the warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, misadjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Servicenter or other Authorized Servicer, or damage that is attributable to acts of God.

2) **THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER “LIMITED WARRANTY COVERAGE.” THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY.** (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the servicer, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.)

3) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.



Thank you for your purchase.

We appreciate your business. Please contact us with your question and comments.

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