



CPT-387HD

HD to Video Converter



Operation Manual



DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. Cypress Technology assumes no responsibility for any infringements of patents or other rights of third parties which may result from its use.

Cypress Technology assumes no responsibility for any inaccuracies that may be contained in this document. Cypress also makes no commitment to update or to keep current the information contained in this document.

Cypress Technology reserves the right to make improvements to this document and/or product at any time and without notice.

COPYRIGHT NOTICE

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or any of its part translated into any language or computer file, in any form or by any means—electronic, mechanical, magnetic, optical, chemical, manual, or otherwise—without express written permission and consent from Cypress Technology.

© Copyright 2012 by Cypress Technology.

All Rights Reserved.

Version 1.0 January 2012

TRADEMARK ACKNOWLEDGMENTS

All products or service names mentioned in this document may be trademarks of the companies with which they are associated.



SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

REVISION HISTORY

| VERSION NO. | DATE DD/MM/YY | SUMMARY OF CHANGE |
|-------------|---------------|-----------------------|
| VR0 | 14/05/12 | Preliminary Release |
| VS1 | 22/02/13 | Updated text/diagrams |

CONTENTS

| | |
|--|----------|
| 1. Introduction | 1 |
| 2. Applications | 1 |
| 3. Package Contents | 1 |
| 4. System Requirements | 1 |
| 5. Features | 1 |
| 6. Operation Controls and Functions | 2 |
| 6.1 Front Panel | 2 |
| 6.2 Rear Panel..... | 3 |
| 7. Connection Diagram | 4 |
| 8. Specifications | 5 |
| 9. Acronyms | 6 |



1. INTRODUCTION

The HD Component to Video Converter with HD bypass is designed to convert a variety of analog component images, from 480p up to 1080p and can convert them to NTSC or PAL standards video with an additional HD bypass output. Users can also adjust the Overscan/Underscan of the output image. It is ideal for applications like video conferencing, home theater, business presentation, lecturing room etc. where both the original HD and the converted SD signals are required.

2. APPLICATIONS

- HD Component to Composite Video/S-Video conversion
- HD Component to NTSC/PAL frame rate conversion
- Convert HD component signals for recording or distribution to SD systems

3. PACKAGE CONTENTS

- HD to Video Converter
- 5V DC Power Supply Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

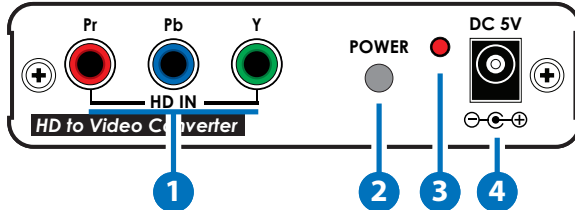
Input source equipment such as DVD/Blu-ray player and output to SD systems (NTSC/PAL).

5. FEATURES

- Supports high resolution HD input from 480p up to 1080p
- Supports component (YPbPr) input and downscaling to Composite video/S-video output or HD bypass for simultaneous display output
- Switch easily between NTSC/PAL systems
- Auto-phase adjustment to ensure better image display
- Image Overscan/Underscan selection
- Easy to install and operate

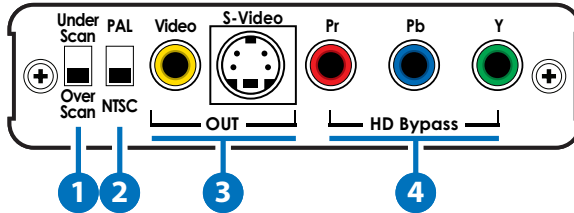
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



- 1 YPbPr HD IN**
 Connect to the source equipment such as a DVD/Blu-ray player with component video cables.
- 2 POWER Button**
 Switches the device on or sets it to standby mode.
- 3 POWER LED**
 This LED will illuminate in red when the device is turned on. Whilst in auto phase adjustment the LED will blink.
- 4 DC 5V**
 Connect the 5V DC power supply into the unit and plug the adaptor to AC wall outlet.

6.2 Rear Panel



1 Under Scan/Over Scan Switch

Switch to adjust the output image to underscan or overscan on the display in order to view the full image.

2 PAL/NTSC Switch

Switch to change to PAL or NTSC system according to suit the display system. The device will also perform the auto phase adjustment after switching.

3 Video/S-Video OUT

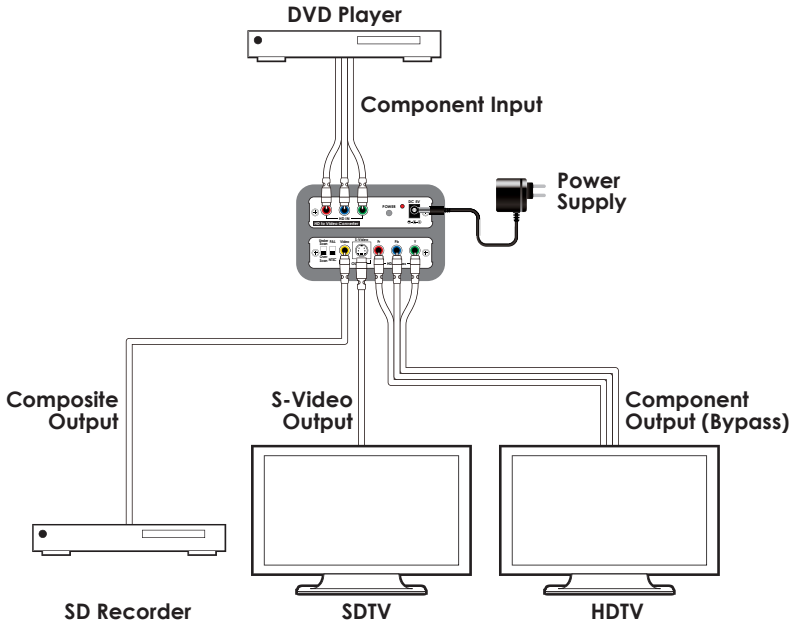
Connect to a display with a Composite Video or S-Video cable for simultaneous output of the SD signal.

4 YPbPr HD Bypass

Connect to a display with Component Video (YPbPr) cables for simultaneous output of the Component signal.

Note: In standby mode the Component bypass function will continue to operate.

7. CONNECTION DIAGRAM





8. SPECIFICATIONS

| | |
|----------------------------------|---|
| Input Port | 1×Component (Y/Pb/Pr) |
| Output Ports | 1×Component Bypass (Y/Pb/Pr), 1×Composite Video, 1×S-Video |
| Supports Input Resolution | 480p@60, 576p@50, 720p@50/60, 1080i@50/60, 1080p@24/25/30/50/60 |
| Switcher | 1×Overscan/Underscan, 1×PAL/NTSC |
| ESD Protection | Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge) |
| Power Supply | 5V DC/2.6A (US/EU standards, CE/FCC/ UL certified) |
| Dimensions | 102 mm (W)×105 mm (D)×25 mm (H) |
| Weight | 215 g |
| Chassis Material | Aluminum |
| Silkscreen Color | Silver |
| Operating Temperature | 0 °C ~ 40 °C/32 °F ~ 104 °F |
| Storage Temperature | -20 °C ~ 60 °C / -4 °F ~ 140 °F |
| Relative Humidity | 20 ~ 90% RH (non-condensing) |
| Power Consumption | 5.5 W |

9. ACRONYMS

| ACRONYM | COMPLETE TERM |
|-------------|--------------------------------------|
| HD | High Definition |
| NTSC | National Television System Committee |
| PAL | Phase Alternating Line |
| SD | Standard Definition |



CYPRESS TECHNOLOGY CO., LTD

Home page: <http://www.cypress.com.tw>