



CLUX-4EN
1 by 4 HDMI Splitter

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 2011 by Cypress Technology.

All Rights Reserved.

Version 1.1 August 2011

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
RDV1	29/08/12	Preliminary Release
VS0	24/06/13	Updated format/diagrams



CONTENTS

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





1. INTRODUCTION

This 1 by 4 HDMI Splitter can split and distribute a single HDMI input into 4 identical HDMI outputs without any loss of quality. It supports a wide range of HDMI features including high definition video and lossless audio, 3D, and 12-bit Deep Color.

2. APPLICATIONS

- Simultaneously display an HDMI source on up to 4 displays
- Showroom display
- Retail sales display
- Digital signage display
- Home entertainment HD distribution

3. PACKAGE CONTENTS

- 1 by 4 HDMI Splitter
- 5 V/2.6 A DC Power Supply Adaptor
- Operation Manual

4. SYSTEM REQUIREMENTS

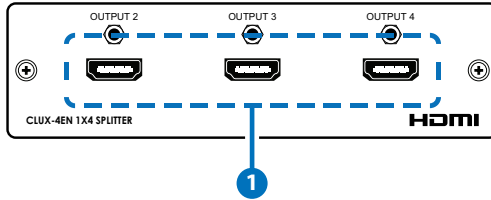
- Source equipment with HDMI output
- Displays (TV/Projector/monitor) or AV Receiver with HDMI input

5. FEATURES

- Supports HDTV resolutions up to 1080p60 and PC resolutions up to WUXGA (1920×1200 Reduced Blanking)
- HDMI and HDCP compliant
- Supports up to 12-bit Deep color
- Supports up to 7.1 channels of high definition audio: LPCM, Dolby Digital, Dolby Digital Plus, Dolby TrueHD, DTS, and DTS-HD Master Audio transmission (32~192 kHz Fs sample rate)
- Supports 3D signals
- Supports HDMI input cable lengths of up to 15 meters (8-bit)/10 meters (12-bit) and HDMI output cable lengths of 15 meters (8-bit)/10 meters (12-bit)
- Cascades up to 3 layers
- Power and Input Sync LED indicators
- Locking power supply unit
- EDID setting switch

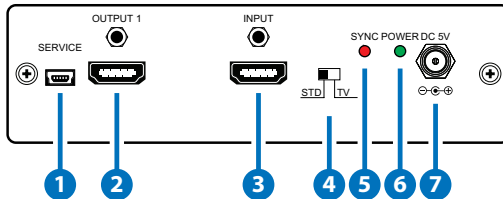
6. OPERATION CONTROLS AND FUNCTIONS

6.1 Front Panel



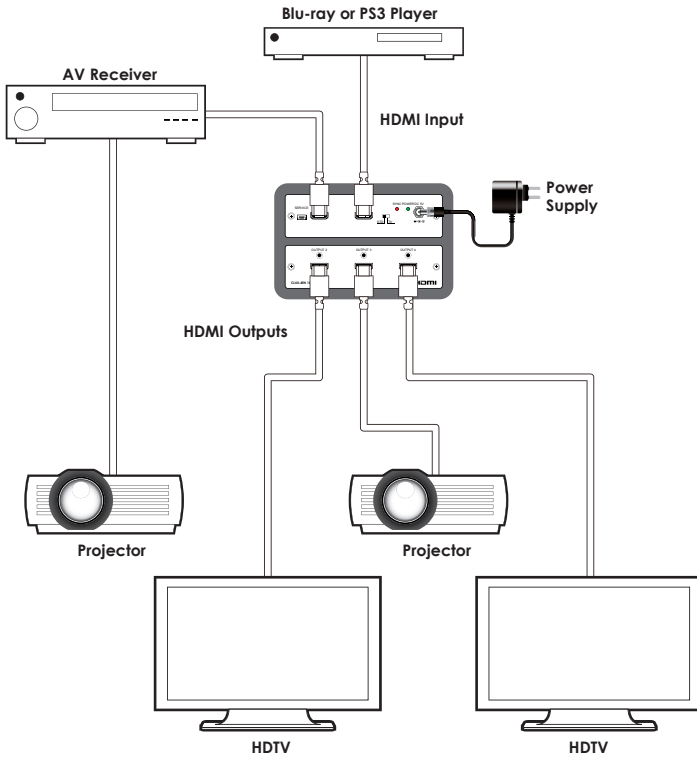
- 1 OUTPUT 2/3/4:** Connect each of the HDMI outputs to HDMI displays for simultaneous HDMI distribution.

6.2 Rear Panel



- 1 SERVICE:** Manufacturer use only.
- 2 OUTPUT 1:** Connect the HDMI output to the HDMI display for simultaneous HDMI distribution.
- 3 INPUT:** Connect the input port to the HDMI or DVI output (using a DVI to HDMI adaptor) of your source equipment such as DVD/Blu-ray player, game console, or set-top box.
- 4 EDID STD/TV:** The default setting is TV. When in this mode, the unit will detect the EDID settings of the display connected to OUTPUT 1 and record them in the unit's memory. If there are any audio or video issues then switch the unit to STD mode and power cycle it. The Splitter will scan all connected displays and provide the highest common settings.
- 5 SYNC LED:** The LED will illuminate when the HDMI source signal is connected to the input port.
- 6 POWER LED:** The power LED will illuminate when the unit is powered.
- 7 DC 5V:** Connect the 5V DC power supply to the unit and plug the adaptor into an AC wall outlet.

7. CONNECTION DIAGRAM





8. SPECIFICATIONS

Video Bandwidth	225 MHz/6.75 Gbps
Input Ports	1×HDMI (Female), 1×USB (Service only)
Output Ports	4×HDMI (Female)
Output Resolution	480i ~ 1080p@24/50/60 up to 12-Bit Color Depth, and VGA ~ WUXGA(RB)
HDMI Input Cable	15m (1080p 8-bit)/10m (1080p 12-bit)
HDMI Output Cable	15m (1080p 8-bit)/10m (1080p 12-bit)
Power Supply	5 V/2.6 A DC (US/EU standards, CE/FCC/UL certified), Locking Type, center positive
ESD Protection	Human body model: ±8kV (air-gap discharge) ±4kV (contact discharge)
Dimensions	141 mm (W)×99 mm (D)×38 mm (H)
Weight	388 g
Chassis Material	Metal
Color	Black
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	4 W

9. ACRONYMS

ACRONYM	COMPLETE TERM
EDID	Extended display identification Data
HDCP	High-bandwidth Digital Content Protection
HDMI	High-Definition Multimedia Interface
HDTV	High-Definition Television
VGA	Video Graphics Array
WUXGA	Widescreen Ultra Extended Graphics Array



CYPRESS TECHNOLOGY CO., LTD

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