CLUX-14EP
1x4 HDMI Splitter

Operation Manual

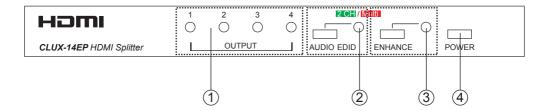CLUX-14EP

TABLE OF CONTENTS

1. Introduction

This HDMI Splitter is the most advanced solution to HDMI signal distribution. Each product in this series is compliant with HDMI and HDCP v 1.1 specifications. It allows a HDMI source to connect up to 4 HDMI displays simultaneously. without signal losing and supports a wide range of PC and HDTV resolutions with deep color and color space transmission. It also supports multi-channel compressed and uncompressed HDMI audio for users to enjoy a complete HD vision and sound together. With built-in audio EDID and signal enhance function, that allows a smooth communication between the source and display.

2. Features

- HDMI, HDCP1.1 and DVI1.0 compliant.
- Built-in HDCP keysets allows each output to work independently when connecting to a HDMI display.
- Splits a HDMI source up to four outputs at 1080p without signal loss.
- Supports DVI source and DVI display by using HDMI to/from DVI adaptor cable.
- Supports a wide range of PC and HDTV resolutions, from VGA to UXGA and 480p to 1080p.
- Deep color video 10bit, 1080p@60Hz and 12bit up to 1080i@60Hz.
- Can be cascaded for more outputs.
- Supports muti-channel compressed and uncompressed HDMI audio.
- Full HDCP compliant.
- Enhance function for signal pre-emphasis.
- Wide Frequency Range: 25MHz~225MHz.
- Video bandwidth: 6.75Gbps.
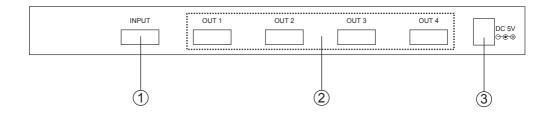- Supports conversion of HDMI signaling to DVI.

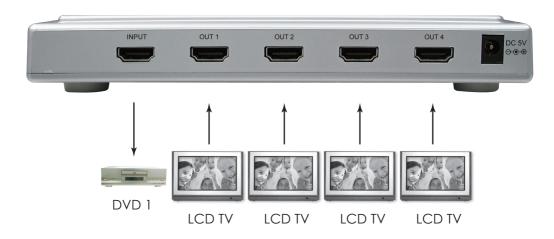# 3. Operation Controls and Functions

3.1 Front Panel

① HDMI output Indicator: The LED will illuminate when the output sources are been connected.

② Audio EDID button: This system built-in standards audio EDID for 2 channels and multi channels supports. In cases where the sources are supports multi channels and displays only supports 2 channels. The user can simply switch the audio EDID to 2 channels. When selected audio EDID in 2 channels, the LED will illuminate in Red color. When selected audio EDID in multi channels, the LED will illuminate in Green color.

③ Signal Enhancement button & Indicator: Press "Enhance" button to improve signal quality after long distance transmission.

④ Power button: Press to power ON the unit.

3.2 Rear Panel

```
┌──────────────────────────────────────────────────────────────────────────────────┐
│          INPUT    ┌ OUT 1      OUT 2      OUT 3      OUT 4 ┐    ┌──┐  DC 5V         │
│         ┌─────┐   ┊ ┌────┐    ┌────┐    ┌────┐    ┌────┐   ┊    │  │  ⊖─⬤─⊕          │
│         └─────┘   └ └────┘    └────┘    └────┘    └────┘ ──┘    └──┘                │
└──────────────────────────────────────────────────────────────────────────────────┘
              │                          │                          │
              ①                          ②                          ③
```

①   HDMI Input: Connect input port to the HDMI or DVI output of your source equipment such as DVD player or set-top-box.

②   HDMI Outputs 1 to 4: Connect each of the output ports to the HDMI display. When more than one output been connected, the HDMI outputs play identical video signal simultaneously.

③   Power: Plug the 5V DC power supply into the splitter and connect the adaptor to AC wall outlet.

4. Connection and Installation

DVD 1   LCD TV   LCD TV   LCD TV   LCD TV

5. Specifications

Input port	1x HDMI female port (Type A connector)
Output ports	4 x HDMI female ports (signal link)
Power Supply	5VDC/2.6A (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	206(W) x 111(D) x 32(H)
Weight(g)	250
Chassis Material	Plastic
Silkscreen Color	Silver
Operating Temperature	0°C ~ 40°C
Video bandwidth	225MHz (6.75Gbps) / Single-link
Audio Supports	DTS-HD Master Audio, Dolby TrueHD Dolby Digital, DTS, DVD-Audio, LPCM, Multi-CH,MPCM
	Humand body mode +/-10kV (air -gap discharge) & +/-8kV(contact discharge) Core chipset +/- 2kV
ESD protection	4-layer board (impedance control-differential 100 ohm)
PCB stack-up	-single 50 ohm
Input TMDS signal	1.2V (peak-to-peak)
Input DDC signal	5V (peak-topeak, TTL)
Stroage temperature	-20°C~60°C
Relative humidity	20~90% RH (no condensation)

6. *Cypress HDMI Series:*

Product	Description
CLUX-11S	1x1 HDMI Repeater
CLUX-12S	1x2 HDMI Splitter
CLUX-14S	1x4 HDMI Splitter
CLUX-18S	1x8 HDMI Splitter
CLUX-21SY	2x1 HDMI Switcher
CLUX-31S	3x1 HDMI Switcher
CLUX-31SY	3x1 HDMI Switcher
CLUX-41SY	4x1 HDMI Switcher
CLUX-41AT	4x1 HDMI Switcher with Digital Audio
CLUX-42S	4x2 HDMI Switcher
CLUX-110S	1x10 HDMI Splitter
CLUX-210S	2x10 HDMI Splitter
CLUX-210T	2x10 HDMI Splitter with Digital Audio