

# 1 by 2 HDMI v1.3 Splitter

- ID# 757



**Operation Manual**

## Introduction

This HDMI v1.3 Distribution Amplifier is an incredibly useful solution for your HDMI signal distributing needs. From a single HDMI source you can transfer Deep Color (10-bit and 12-bit) video and a new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) digital audio with high bandwidth up to 225MHz (6.75Gbps) to two HDMI outputs. Besides splitting and distributing, it also does signal amplification and equalization, providing high I/O performance on both audio and video.

## Application

- Simultaneous display one HDMI source on 2 TVs
- Show room display control
- Educational demo
- Installation usage

## System Requirements

- Input source equipments with HDMI output connector(s)
- Output displays with HDMI input connector(s)

## Features

- HDMI 1.3, HDCP1.1 and DVI1.0 compliant Receiver .
- Deep color video up to 12bit, 1080p@(24/60)Hz.
- Simultaneously displays one HDMI source onto eight HDMI displays.
- HDCP keysets allow each output to work independently when connecting to an HDMI display.
- Allows a single HDMI source to be shown on two displays without any signal loss.
- Supports DVI source/display via HDMI to/from DVI adaptor cable.
- Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmission (32-192kHz Fs sample rate).
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p.
- HDMI cable distance testing showed that with 1080p/8bits resolution: the Input/Output source can reach up to 10/10 meters away, and at 1080p/12bits the I/O source can reach up to 6/10 meters.

### Note:

A. Cable tested with CAT-6E /23AWG/ using cables of another type may result in a different operating distance.

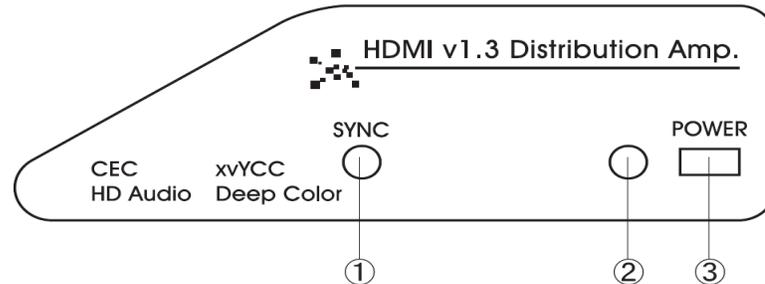
B. Cable distance test included the following: PS3 120G and 37" Samsung 12-bit LCD TV.

C. Figures provided in this manual are reference figures only, actual figures may depend on source and display use with cable specification.

- Supports EDID bypass, xvYCC and CEC bypass.
- CEC function support includes one touch play & record, timer programming, menu language, deck & device menu control, OSD display, device OSD transfer, remote control pass through, system audio control and system standby
- System standby will only be activated when the last TV is switched to standby

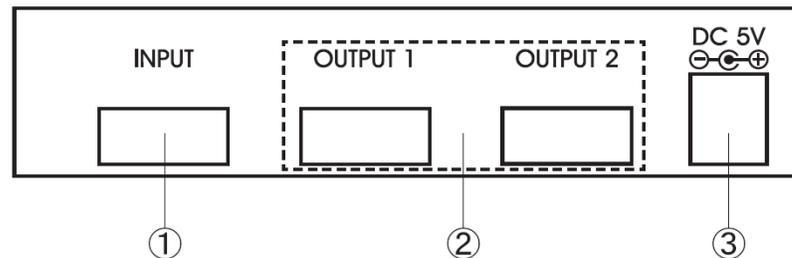
## Operating Functions and Controls

### Front Panel



- ① **Sync LED:** When an HDMI source is connected, this LED will switch on once the splitter has established a Link with the source.
- ② **Power LED Indicator:** The LED Will turn on when power is on.
- ③ **Power Switch:** Press this button to turn power on and off.

### Rear Panel



- ① **HDMI Input:** This slot is where you connect the output port of your HDMI/ DVI source (i.e., DVD, set-top box) using an HDMI/HDMI to DVI adaptor cable.
- ② **HDMI output 1~2:** These slots connect to the HDMI displays through the splitter, using HDMI cables. If more than one output is connected, all corresponding HDMI outputs will simultaneously display an identical video signal.
- ③ **Power:** This slot is where you insert the 5V DC power supply after its plugged into an AC outlet.

## Connection and Installation



## Specifications

<b>Frequency Bandwidth</b>	2.25Gbps (single link)
<b>Input Port</b>	1x HDMI female port (Type A connector)
<b>Output Ports</b>	2x HDMI female ports (signal link)
<b>HDMI Cable In</b>	1080p 8-bit (10M), 12-bit (15M)
<b>HDMI Cable Out</b>	1080p 8-bit (6M), 12-bit (15M)
<b>ESD Protection</b>	Human body model: ± 10kV (air-gap discharge) ± 6kV (contact discharge)
<b>PCB Stack - up</b>	4-layer board impedance control – differential 100Ω – Single 50Ω
<b>Input TMDS Signal</b>	1.2 Volts (peak-to-peak)
<b>Input DDC Signal</b>	5 Volts (peak-to-peak, TTL)
<b>HDMI Output Resolution</b>	480i ~ 1080p, 1080p24, VGA ~ UXGA
<b>Power Supply</b>	5VDC/1A (US/EU standards, CE/FCC/UL certified)
<b>Dimensions (mm)</b>	145(W) x 90(D) x 32(H)
<b>Weight(g)</b>	160
<b>Chassis Material</b>	Plastic
<b>Silkscreen Color</b>	Black
<b>Operating Temperature</b>	0°C ~ 40°C / 32°F ~ 104°F
<b>Storage Temperature</b>	-20°C ~ 60°C / -4°F ~ 140°F
<b>Relative Humidity</b>	20% ~ 90% RH (non-condensing)
<b>Power Consumption</b>	3.2W (max)