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# HDMI™

HIGH-DEFINITION MULTIMEDIA INTERFACE

# DISTRIBUTION AMPLIFIER



## HDA140

### 1-in 4-out HDMI™ Distribution Amplifier

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**HDA140**

## 1. Introduction

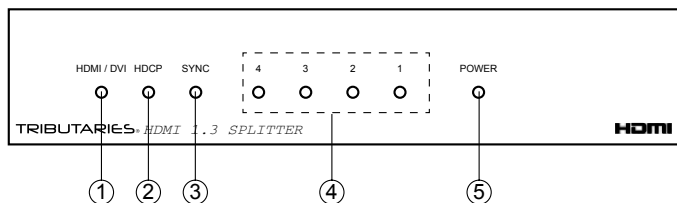
The Tributaries HDA140 HDMI v1.3 Distribution Amplifier is the most advanced solution to HDMI signal distribution. The HDA140 is compatible with HDMI v1.3 specifications, a cutting-edge technology which defines the support to transfer Deep Color (10, 12 and 16 bit ) video and new lossless compressed (Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio) digital audio, with a high bandwidth up to 225MHz (6.75Gbps). Besides splitting and distributing, the HDA140 is a signal amplifier and equalizer designed to provide high performance I/O of audio and video. Each of the buffered outputs can run up to 30 meters and units can be cascaded.

## 2. Features

- HDMI 1.3, HDCP1.1 and DVI1.0 compliant Receiver.
- Deep color video up to 16 bit.
- Supports refresh rates up to 120Hz.
- Up to 1440p resolution.
- One HDMI source to connect up to four HDMI displays simultaneously.
- HDCP keysets allows each output to work independently when connecting to a HDMI display.
- Splits an HDMI source to four outputs without signal loss.
- Supports a DVI source and a DVI display by using HDMI to/from a DVI adaptor cable.
- Supports Dolby® Digital, DTS® digital audio transmission (32-192 KHz sample rate).
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p.
- Input/Output source can run up to 30 meters @ 1080p.
- Supports EDID.
- Fully HDCP Compliant.
- Supports CEC - Consumer Electronics Controls

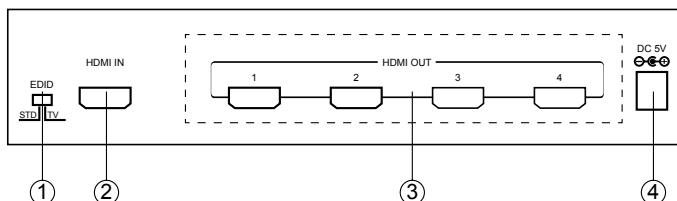
## 3. Operation: Controls and Functions

### 3.1 Front Panel



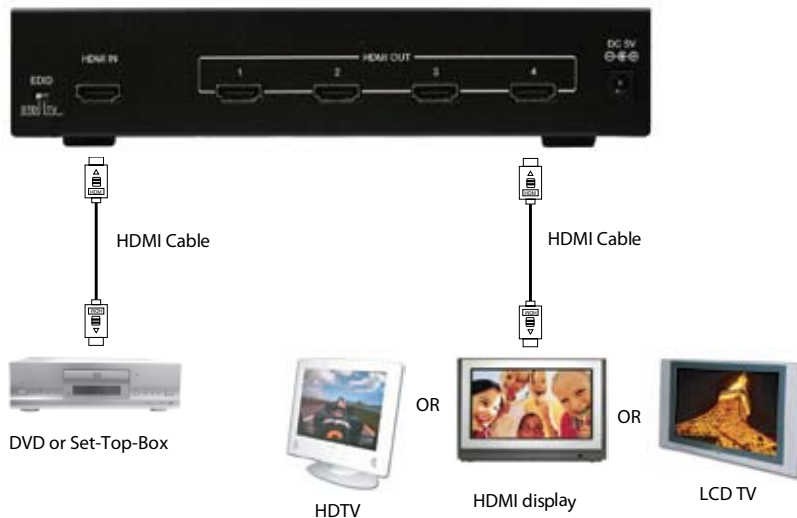
- 1 **HDMI/DVI Indicator:** The LED will illuminate when the HDMI input is connected to the HDMI output of the source, the LED will not illuminate when the output of the source is originally a DVI output.
- 2 **HDCP Indicator:** The LED will illuminate when the HDMI input source is HDCP-protected.
- 3 **SYNC Indicator:** The LED will illuminate when the HDMI IN is properly connected to an HDMI or DVI output.
- 4 **HDMI output Indicator:** The LED will illuminate when the output sources are connected.
- 5 **POWER Indicator:** The power LED will illuminate when power is on.

### 3.2 Rear Panel



- 1 **EDID Control:** Default factory setting is TV, leave as is if the display is operating properly. Switch to STD to use built-in EDID if the display has problems. When TV is selected using the EDID control, the unit will detect the first HDMI output source's EDID and record in the unit. If the first detected output source is DVI it will pass to next source, until the first HDMI been detected.
- 2 **HDMI Input:** Connect to the HDMI or DVI output of your source equipment such as DVD player or set-top-box.
- 3 **HDMI Outputs 1 to 4:** Connect each of the output ports to a different HDMI display. When more than one output is connected, each display will play the identical video signal simultaneously.
- 4 **Power:** Plug the 5V DC power supply into the HDA140 and connect the adaptor to AC wall outlet.

## 4. Connection and Installation



## 5. Specifications

Frequency bandwidth	2.25Gbps (single link) (6.75 Gbps total)
Input port	1x HDMI female port (Type A connector)
Output port	4 x HDMI female ports
Power Supply	5VDC/2.6A (US/EU standards, CE/FCC/UL certified)
Dimensions (mm)	215(W) x 133(D) x 44(H)
Weight(g)	850
Chassis Material	Metal
Silk Skin Color	Black
Operating Temperature	Operating from 0°C ~ 48°C



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