



# HDA 1x2S

HDMI-HDMI Distribution Amplifier

Part No. 310006

# HDA 1x8S

HDMI-HDMI Distribution Amplifier

Part No. 310007

## Operating Manual



TRIAX - your ultimate connection

# Operating Manual

- The illustrations in this operation manual are for explanation and guidance purposes only.
- The examples used throughout this manual are based on the HDA 1x2S and HDA 1x8S models.

## Dear Triax customer

Thank you for purchasing the **TRIAX HDMI-HDMI Distribution Amplifier**.

To ensure safety and many years of trouble-free operation, please read the **Important Safety Precautions** carefully before using this product.

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## Important Safety Precautions

- **Cleaning** - Unplug the AC power from the mains supply before cleaning the product. Use a damp cloth to clean the product. Do not use liquid cleaners or aerosol cleaners.
- Use a soft damp cloth to gently wipe the product when it is dirty. To protect the product, do not use a chemical cloth to clean it. Chemicals may cause damage or cracks in the casing of the product.
- **Water and moisture** - Do not expose the unit to wet or damp conditions.
- Do not place vases or any other water-filled containers on this product. The water may spill onto the product causing fire or electric shock.
- **Ventilation** - The vents and other openings in the casing are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation openings. This product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed.
- **Heat sources** - Keep the product away from heat sources such as direct sunlight, radiators, heaters, stoves and other heat-generating products (including amplifiers).
- To prevent fire, never place any type of candle or naked flames on the top or near the product.
- **Servicing** - Do not attempt to service the product yourself. Removing covers can expose you to electric shock and other dangerous conditions. Maintenance should be performed by a suitably qualified person.

## Introduction

The Triax HDA HDMI Distribution Amplifier Series is an advanced solution for distributing HDMI Source signals to either 2 or 8 Sink devices. Each product in the Triax range is compatible to v1.3 HDMI specifications, a cutting edge technology which defines the support of the transfer of Deep Colour (10-bit and 12-bit) video and new lossless compressed (LPCM 7.1CH, 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 HDA Series also provides signal amplification and equalization of audio and Video from Input to Output.

## Features

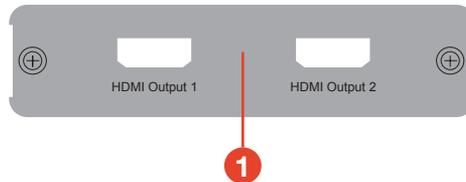
- v1.3 HDMI, HDCP 1.1 and DVI 1.0 compliant.
- Supports 'Deep Colour' (10 and 12 bit).
- One HDMI source can connect to two or eight HDMI displays simultaneously.
- HDCP keysets allows each output to work independently when connecting to a HDMI display.
- Supports DVI source and DVI display by using HDMI to/from DVI adaptor cable.
- Supports LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio transmissions (32-192kHz F/s sample rate).
- Supports a wide range of PC and HDTV resolutions from VGA to UXGA and 480i to 1080p.
- Supports EDID functionality.
- Note: The detection priority is v1.3 HDMI > v1.2 HDMI > DVI On output1
- Supports CEC bypass.

## Package Contents

- HDA 1x2S or HDA 1x8S
- 5V DC Power Supply Adapter
- Operating Manual

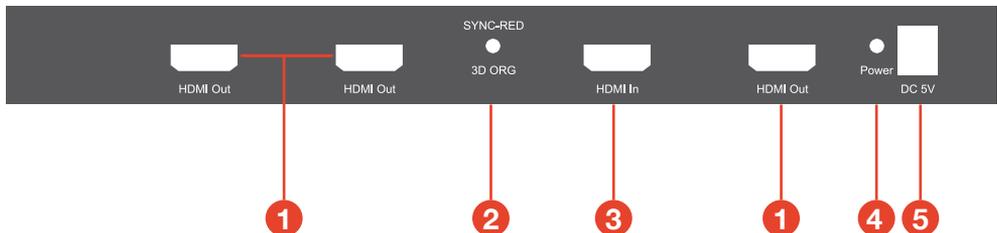
# Operation and Control

## Front Panel - HDA 1x2S



- 1. HDMI Output 1x2:** Connects each of the output ports to a HDMI enabled display. When more than one output is connected both screens display the HDMI signal simultaneously.

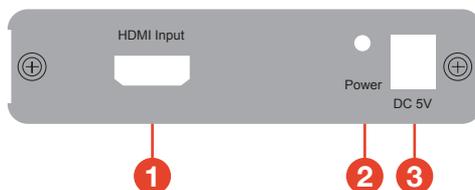
## Front Panel - HDA 1x8S



- 1. HDMI Outputs:** Connects each of the output ports to a HDMI enabled display. When more than one output is connected the HDMI outputs play identical video signals simultaneously.
- 2. Sync RED 3D ORG:** The LED will turn red when the input signal is not in 3D. If the input signal is 3D then the LED will change to orange.
- 3. HDMI Input:** Connects the input port to the HDMI or DVI output of your source equipment such as DVD player or set-top box.
- 4. Power LED:** The LED will illuminate when the power is connected.
- 5. Power:** Plug the DC 5V 6A power supply into the HDA 1x8S and connect the adapter to a mains socket and switch on.

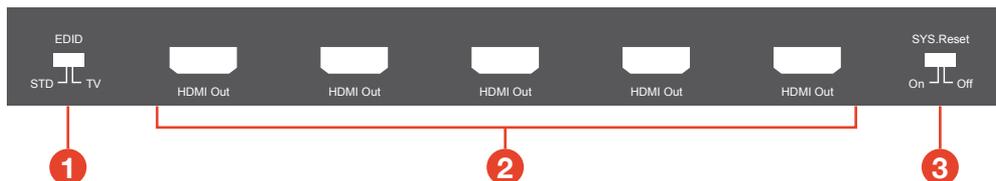
# Operation and Control

## Rear Panel - HDA 1x2S



- 1. HDMI Input:** Connects the input port to the HDMI or DVI output of your source equipment such as DVD player or set-top box.
- 2. Power LED:** The power LED will illuminate when power is on.
- 3. Power:** Plug the 5V DC power supply into the HDA 1x2S and connect the adapter to a mains socket and switch on.

## Rear Panel - HDA 1x8S



### 1. EDID Control Switch:

The Default EDID setting is set to TV, if the display shows the correct aspect ratio then it is formatted correctly. If the display has not set to the correct aspect ratio then switch to the STD setting to use the built-in EDID generator. When the EDID control is switched to TV setting, the unit will detect the first HDMI output source's EDID and record it, it will default to the lowest aspect ratio that all TV's can view. If the first detected output source is DVI it will pass to next source, until the first HDMI Source has been detected.

Note: To validate the EDID Control setting the HDA 1x8S needs to be re-booted by a mains reset.

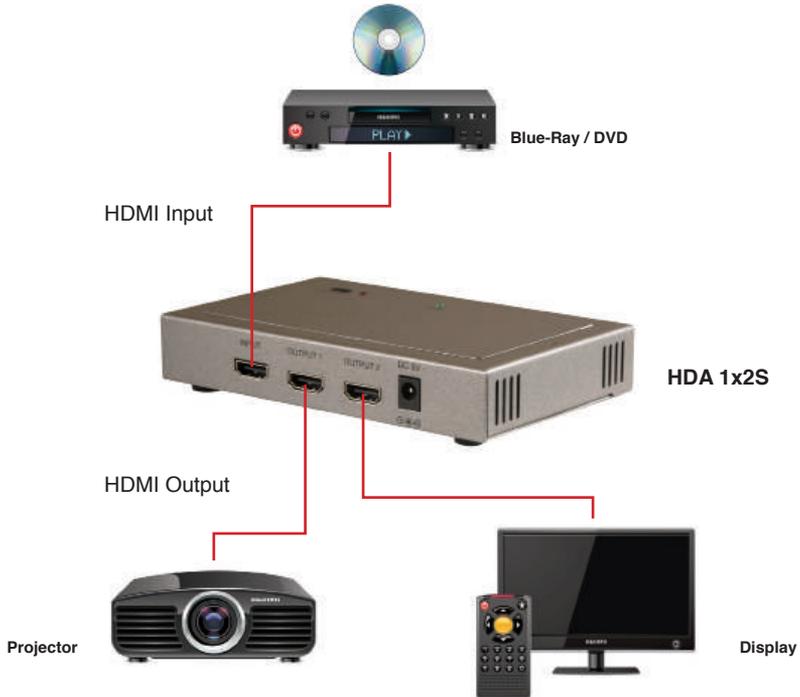
### 2. HDMI Outputs:

When more than one output is connected, the HDMI outputs play identical video signals simultaneously and the same image will be displayed on ALL TV's.

### 3. CEC Reset (SYS reset):

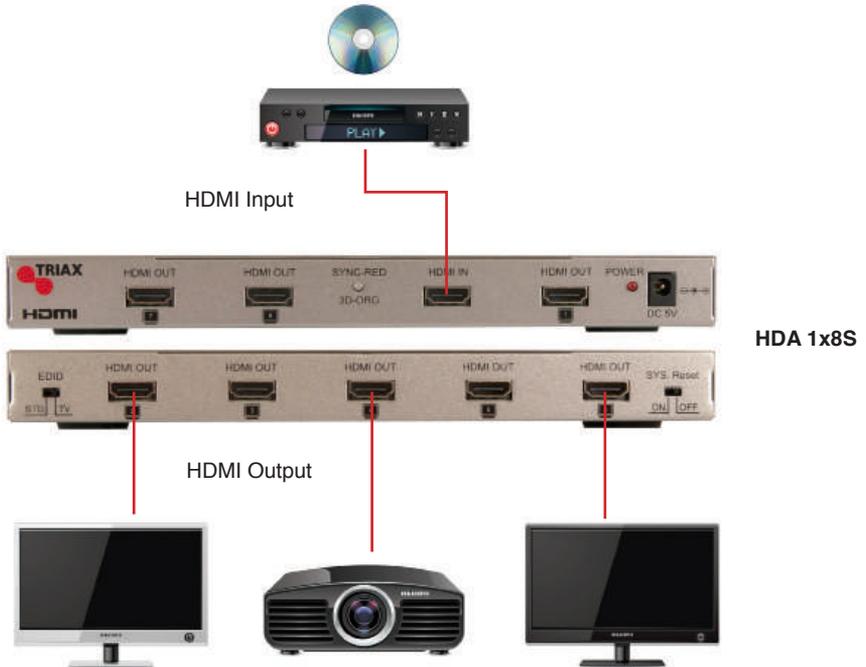
Switched to "ON" position, the system will send the internal CEC Command to the display within 8~10 minutes to force all the displays to switch back to HDMI 1 Source (Default). If the "OFF" position is selected the source CEC Command will not function and the TV's continue to display the local HDMI Source.

## Connection Diagram HDA 1x2S



HDA 1 x 2S	
Input Port	1 x HDMI Female Port (Type A)
HDCP Version	V1.1
Output Port	2 x HDMI Female Port (Type A)
HDMI Specification	V1.3
Frequency bandwidth	2.25Gbps (single link)
Power Supply	5V/ 1.2A DC (US/EU standards, CE/FCC/UL Certified)
Dimensions (mm)	100(W) x 147(D) x 25(H)
Weight (g)	300
Chassis Colour	Anthracite RAL 7016
Chassis Material	Metal
Operating Temperature	Operating from 0°C - 40°C

## Connection Diagram HDA 1x8S



### HDA 1 x 8S

Input Port	1 x HDMI Female Port (Type A)
HDCP Version	V1.1
Output Port	8 x HDMI Female Port (Type A)
HDMI Specification	V1.3
Frequency bandwidth	2.25Gbps (single link)
Power Supply	5VDC/2.6A (US/EU standards, CE/FCC/UL Certified)
Dimensions (mm)	240(W) x 103(D) x 24(H)
Weight (g)	1000
Chassis Colour	Anthracite RAL 7016
Chassis Material	Metal
Operating Temperature	Operating from 0°C - 40°C

## Notes







**Issue 2**

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\*Triax reserves the right to change the specifications without prior notification