

# User Manual

Audio  Authority®

Model 1392A  
1x2 Distribution Amplifier

**HDMI** v 1.3

**Model 1392A**  
**1x2 HDMI Distribution Amplifier**

Audio  Authority®



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### Liability Statement

Every effort has been made to ensure that this product is free of defects. Audio Authority cannot be held liable for the use of this hardware or any direct or indirect consequential damages arising from its use. It is the responsibility of the user of the hardware to check that it is suitable for his/her requirements and that it is installed correctly. All rights reserved. No parts of this manual may be reproduced or transmitted by any form or means electronic or mechanical, including photocopying, recording or by any information storage or retrieval system without the written consent of the publisher.

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## **1.0 INTRODUCTION**

Thank you for purchasing this Model 1392A distribution amplifier from Audio Authority. This distribution amplifier is designed to split an HDMI® signal from one source to two HDMI displays without signal degradation or loss of encryption.

The 1392A is HDMI v1.3 compliant, supporting Dolby TrueHD and DTS-HD Master Audio. Ultra high bandwidth, equalized inputs, and amplified outputs insure a flawless installation even with long cable runs.

Audio Authority also offers an extensive line of audio and video switchers, converters and distribution amps available for purchase online at [www.audioauthority.com](http://www.audioauthority.com).

## **1.1 FEATURES**

- Distributes one HDMI source signal to two destinations
- Equalizer/extender circuitry allows up to 30m (100') input cable length
- Outputs may be cascaded to create an extensive distribution network
- Supports 10/12 bit color depth display
- Supports 480i, 480p, 720p, 1080i, 1080p and many PC resolutions
- Supports Dolby Digital +, Dolby® Digital TrueHD and DTS-HD Audio
- HDMI version 1.3 compliant, HDCP 1.1 compliant

## 2.0 GETTING THE BEST RESULTS

Many factors influence the quality and reliability of HDMI switcher installations. Consider the following and take basic precautions suggested below to ensure the best possible performance.

- **Output display device.** The quality of the output signal depends largely upon the type and quality of the HDMI display device used; some televisions simply look better than others.
- **Distance between the sources and the display.** Long distances are possible, but premium quality cables and advanced HDMI extenders with DDC correction may be necessary for the longest runs.
- **Input/output connection cables.** HDMI cable design and quality are extremely important in long cable runs where capacitance can severely degrade performance. Cables should be of the best quality; low quality cables are susceptible to interference. Always use locking cables or good strain relief methods to prevent cables from becoming loose over time.
- **Interference from nearby electrical devices** can have an adverse effect on signal quality. For example, older computer monitors often emit a very high electromagnetic field that can interfere with the performance of video equipment in its proximity.

### 2.1 Resolution Tracking

HDTV signals can be output from the source at several different resolutions and the 1392 can sense and accept any standard resolution. However, on the outputs, the DA must sense the resolution capabilities of all of the display devices connected to it and then set the resolution of all outputs to the resolution of the display having the **lowest** resolution response characteristics. This behavior insures that all displays can produce a picture. It is best to use display devices having the same maximum resolution; just one display with lower resolution capabilities causes all of the other displays connected to the DA to receive that same low resolution.

### 3.0 CHECKING PACKAGE CONTENTS

Before attempting to use this DA, please check the packaging and make certain the following items are contained in the shipping carton:

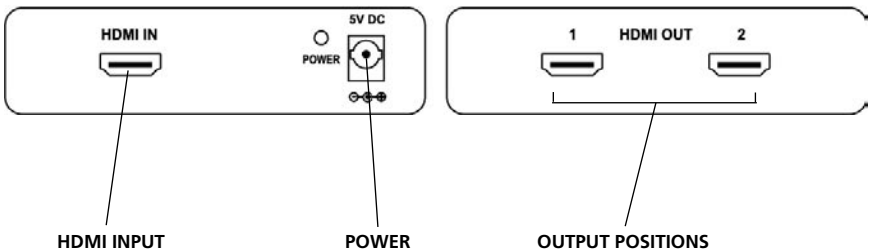
- HDMI Distribution Amplifier
- 5 VDC Power Adapter
- User Manual

Note: please keep the original packing material in case the unit ever needs to be returned. If you find any items are missing, contact Audio Authority immediately. Have the model number and invoice available for reference when you call.

### 4.0 CONNECTING THE HARDWARE

Please study the front and rear panel drawings and become familiar with the signal input, outputs and power input.

The 1392A has a single HDMI input and two HDMI outputs. The Power LED indicates that the unit is receiving power.



- Connect an HDMI approved cable from the HDMI source to the input of the DA. Cable length can be up to 30 meters – preferably shorter.
- Connect the outputs of the DA to their destination devices using HDMI approved cables no more than 30 meters long.
- Connect the power adapter to the AC source and then to the DA.
- Turn on the HDMI source and HDMI destination devices and observe the source signal on the inputs of all of the destination devices. The DA's front panel LEDs will light indicating which outputs are active.
- Make certain that the HDMI cables are securely plugged into the source and display devices as well as the HDMI DA. Always use high quality cables, and the shortest length possible, for best results.

The unit begins to function as soon as the AC adapter is connected to the unit and AC power. There is no power switch; no other operator interventions necessary.

*Note: Proper operation of HDMI distribution amplifiers depends on the use of high quality HDMI cables that provide low loss, high bandwidth signal handling. The distance specification cannot be guaranteed unless cables used throughout the system meet these high standards.*

## 5.0 TROUBLESHOOTING

- For 1080p resolution, first make certain that the input cable is as short as possible and none of the output cables are more than 30 meters long. HDMI cable design and quality are extremely important in long cable runs where capacitance can severely effect performance. Our 1391A Extender/DDC Corrector may be a necessary accessory to use in extreme length applications.
- Make certain that the Distribution Amplifier is receiving power by looking at the power LED. It should be illuminated and not flickering on and off. Intermittent operation generally means a problem with the DC power adapter or low AC voltage being applied to the DC adapter's input.
- If you still experience problems using the distribution amplifier, you should attempt to determine what is wrong by first attaching the source device directly to each of the destination devices in turn using the same cables you are using with the expanded system. This is a way of determining if the problem is due to bad cables or a problem with the other devices. If you are unable to obtain a signal using this simplified path, suspect the cables, the source device, or the destination device.
- Remember that HDMI devices communicate with one another so the source device and all destination devices must be fully HDMI and HDCP compatible.

If a problem still persists after trying the above suggestions, contact the Audio Authority Technical Service department via email: [support@audioauthority.com](mailto:support@audioauthority.com), or call 800-322-8346 or 859-233-4599.

## 6.0 SPECIFICATIONS

Video Inputs	
HDMI (All Models)	1x via HDMI connector
Video Output	
HDMI	2x via HDMI connector
HDMI Transport	
Frequency Bandwidth	2.25Gbps single link
Color Depth	10/12 bit color depth display
Supported PC/DVI Resolutions	XGA through 1920x1200
Supported HDTV Formats	480i, 480p, 576i, 576p, 720p, 1080i, and 1080p
Compliance	HDMI V1.3, HDCP V1.1, DVI 1.0
Signal Equalization	Internal
Maximum Distances	
Source to DA	20m (60') for 1080p/8-bit, 15m (45') for 1080p/12-bit
DA to Display	15m (45') for 1080p/8-bit, 10m (30') for 1080p/12-bit
Warranty	
Limited Warranty	1 year parts and labor
Mechanical	
Size (H-W-D)	0.98"x3.9"x5.8" (25x100x147mm)
Weight (Net)	0.7lbs (300g)
Environmental	
Operating Temperature	0° to +50°C (+32° to +122°F)
Operating Humidity	10% to 90%, non-condensing
Storage Temperature	0° to +50°C (+32° to +122°F)
Storage Humidity	10% to 90%, non-condensing
Power Requirement	
External Power Supply	5VDC@2.6A
Regulatory Approvals	
HDMI DAs	FCC, CE, RoHS
Power Supply	UL, CUL, CE, PSE, GS, RoHS
Accessories Included	AC power adapter, instruction manual





## **7.0 LIMITED WARRANTY**

Should any consumer use product from Audio Authority fail due to defects in materials or workmanship within one year from the date of the original sale to the end-user, Audio Authority guarantees that we will replace the defective product at no cost. Freight charges for the replacement unit will be paid by Audio Authority (Ground service only). A copy of the invoice showing the item number and date of purchase (proof-of-purchase) must be submitted with the defective unit to constitute a valid in-warranty claim.

Units that fail after the warranty period has expired may be returned to the factory for repair at a nominal charge, if not damaged beyond the point of repair. All freight charges for out-of-warranty returns for repair are the responsibility of the customer. Units returned for repair must have a Return Authorization Number assigned by the factory.

This is a limited warranty and is not applicable for products which, in our opinion, have been damaged, altered, abused, misused, or improperly installed. Audio Authority makes no other warranties either expressed or implied, including limitation warranties as to merchantability or fitness for a particular purpose. Additionally, there are no allowances or credits available for service work or installation performed in the field by the end user.

### **Warranty Service Procedures**

If you suspect a product defect, contact Audio Authority's Technical Service Department at 800-322-8346 or 859-233-4599 for assistance in verifying the problem. If a defect or potential defect is suspected, a replacement unit will be shipped immediately on a defect-exchange basis and a Return Authorization Number will be issued for the return of the defective product. Replacement units are sent out at the Manufacturer's Suggested Retail Price which is debited to the Customer's Credit Card at the time of shipment. Once we receive the defective unit back at the factory, it will be evaluated under the conditions of this warranty and if found to be in-warranty, a full credit will be issued to the Customer's Credit Card. Return freight charges for the defective unit are the customer's responsibility. Please contact our Technical Service Department for complete details concerning all in and out of warranty service matters.

We appreciate your confidence in our products and services and will always strive to meet or exceed your needs.

## **8.0 REGULATORY COMPLIANCE**

The 1392A Distribution Amplifier has been tested for compliance with appropriate FCC and CE rules and regulations and is also RoHS compliant.

The power adaptor/supply has been tested for compliance with UL, CE and CSA rules and regulations and is also RoHS compliant.

## **9.0 CONTACT INFORMATION**

If you have questions or require assistance with this product in areas not covered by this manual, please contact Audio Authority using the information below.

Audio Authority Technical Service  
800-322-8346 M-F 8:30 AM to 5:00 PM, EST  
International: 859-233-4599 Fax: 859-233-4510  
Send email to: [support@audioauthority.com](mailto:support@audioauthority.com)

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