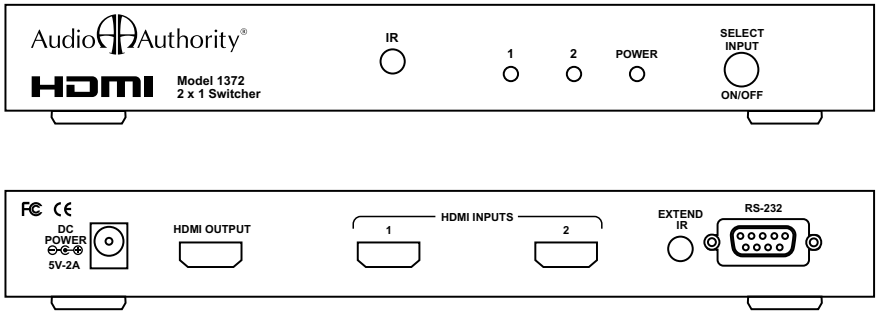


# User Manual



## Model 1372 and 1374 HDMI Switchers

Audio Authority®



## Table Of Contents

<b>1.0</b>	<b>Introduction</b>	<b>4</b>
<b>2.0</b>	<b>Specifications</b>	<b>5</b>
<b>3.0</b>	<b>Checking Package Contents</b>	<b>6</b>
<b>4.0</b>	<b>Connecting The Hardware</b>	<b>6</b>
<b>5.0</b>	<b>Operating The Unit</b>	<b>8</b>
<b>6.0</b>	<b>Troubleshooting</b>	<b>8</b>
<b>7.0</b>	<b>RS-232 Code Information</b>	<b>9</b>
<b>8.0</b>	<b>Limited Warranty</b>	<b>10</b>
<b>9.0</b>	<b>Regulatory Compliance</b>	<b>11</b>
<b>10.0</b>	<b>Contact Information</b>	<b>11</b>

## **1.0 INTRODUCTION**

Thanks for purchasing this Model 1372, or 1374 HDMI Switcher from Audio Authority. These switchers are designed to provide a way to switch between multiple HDMI sources to one display device without signal degradation or loss of encryption. The 1372 and 1374 are HDCP compliant. 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 Liability Statement**

Every effort has been made to ensure that this product is free of errors. 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.

Audio Authority reserves the right to revise any of its hardware and software following its policy to modify and/or improve its products where necessary or desirable. This statement does not affect the legal rights of the user in any way.

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HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.

### **1.2 FEATURES**

- Switches from two to four HDMI sources
- Supports 480i, 480p, 720p, 1080i and 1080p
- HDMI Certified by Silicon Images ATC Laboratory
- Supports DDWG standard for HDMI compliant monitors
- HDCP compliant, RoHS compliant
- IR remote control capability
- RS-232 control port provided

## 2.0 SPECIFICATIONS

<b>Performance</b>	
Resolutions Supported	480i, 480p, 720p, 1080i, 1080p and others
Maximum Cable Distance	Inputs: 50 ft. max, Output 50 ft. max
HDCP Function	HDCP compliant
<b>I/O Connectors</b>	
Inputs	Model 1372: HDMI, TMDS x2 Model 1374: HDMI, TMDS x4
Outputs	HDMI, TMDS x1 (All models)
<b>Mechanical</b>	
Dimensions (H-W-D)	1.1 x 8.7 x 2.8 (28 x 220 x 71mm)
Weight	1.0 lbs (480g)
<b>Warranty</b>	
Limited Warranty	1 Year Parts and Labor
<b>Environmental</b>	
Operating Temperature	0 to +40° C (+32° to +104° F)
Operating Humidity	10% to 85% (Non-condensing)
Storage Temperature	-20° to +60° C (+20° to +140° F)
Storage Humidity	10% to 85% (Non-condensing)
<b>Remote Control</b>	
Serial Interface	RS-232
Infrared	IR Remote Included
<b>Power Requirements</b>	
External Power Supply	+5 VDC @ 2A
<b>Regulatory Approvals</b>	
Switcher	FCC, CE, RoHS, HDMI ATC
Power Supplies	UL, CE, CSA, CEC, RoHS
<b>Accessories Included</b>	
AC Power Adapter	(USA)
Remote Control	Infrared
Mounting Hardware	Remote Mounting Kit Rack Mounting Kit
User Manual	

### 3.0 CHECKING PACKAGE CONTENTS

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

- HDMI Distribution Amplifier
- 5 VDC Power Adapter
- IR Remote Control
- Remote Mounting Kit
- User Manual

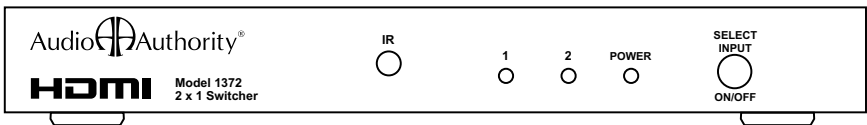
Note: Please keep the original packing material in case the unit ever needs to be returned. If you find any items are missing, contact Audio Authority immediately. Have the Model Number, Serial Number and Invoice available for reference when you call.

### 4.0 CONNECTING THE HARDWARE

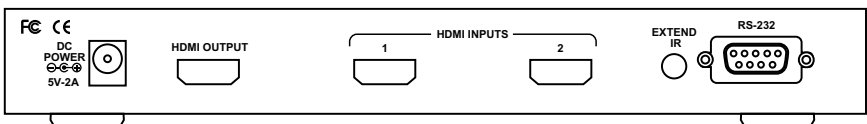
For reference purposes, only the 1372 is depicted below. The 1374 is larger and has two more inputs. Please study the drawings below and become familiar with the location of the controls, status LEDs, signal inputs, signal output and the power input.

- Connect an HDMI approved cable, no more than 50 feet in length, from each of the HDMI sources to the inputs of the switcher.
- Connect the output of the switcher to the destination device using an HDMI approved cable no more than 50 feet long\*.
- Connect the extended IR remote cable if desired.
- Connect the power adapter, first to the switcher and then to the AC outlet.

Model 1372 HDMI Switcher, front view. Model 1374 is similar.



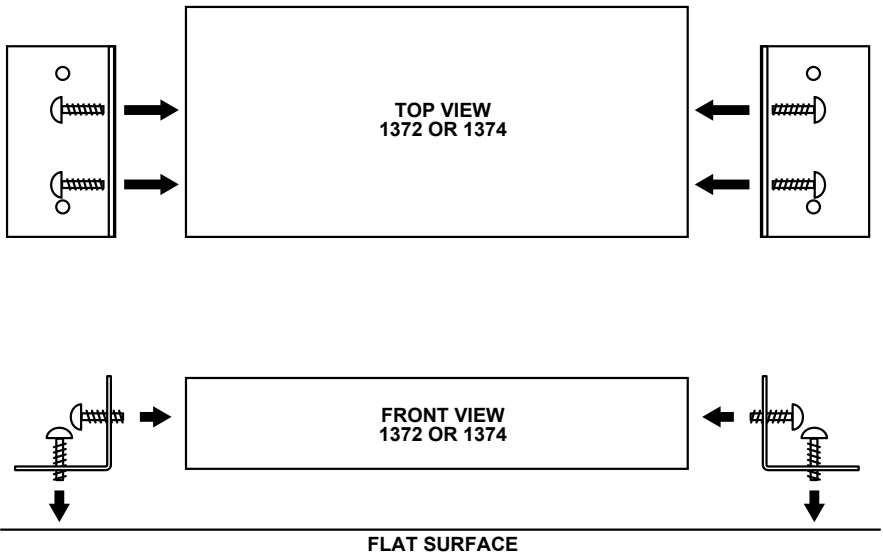
Model 1372 HDMI Switcher, rear view. Model 1374 is similar.



*\* Proper operation of HDMI switchers depends on the use of premium quality HDMI cables that provide low loss, high bandwidth signal handling. The distance specification of 50 feet is for HDMI signals up to 1080i; this specification cannot be guaranteed unless cables meeting these standards are used throughout the system.*

#### **4.1 Installation of Mounting Components**

The switchers can be mounted on any flat surface. Attach the two "L" shaped mounting brackets to the product using the furnished hardware and then attach the combined assembly to the desired location. Note that the holes on the brackets are offset to allow easier mounting to the flat surface after you've attached the brackets to the switcher.



## 5.0 OPERATING THE UNIT

Power and input selection are controlled from one multi-purpose switch. To turn the switcher on, press the **Input Select – Power On/Off** switch. Once the unit is in the operating state, pressing the switch causes the input selection to advance each time it is pressed. (An LED lights to show which input is active.) Once the highest input number is reached, pressing the switch again will select input number 1. Pressing and holding the switch for two (2) seconds will cause the unit to power off.

For greater flexibility, an Infrared remote control is also provided. In the case of the remote, there are separate buttons for the power and input sources. Point the remote control at the unit and press the power button to turn the switcher on or off. Press the appropriate input select button to cause the desired input to appear on the switcher's output.

## 6.0 TROUBLESHOOTING

- First make certain that the input cable is no more than 50 feet long and none of the output cables is more than 50 feet long (for signals up to 1080i) and are of the highest possible quality.
- Make certain that the switcher is receiving power by looking at the power LED.
- If you still experience problems using the switcher, you should attempt to determine what is wrong by first attaching the source devices directly to the destination device in turn using the same cables you are using with the switched 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, a 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 capable. In addition, HDCP encryption requires processing dependent on the equipment you have connected to both the source and destination devices.

If the 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.



## 7.0 RS-232 CODE INFORMATION

### Transmission Format

Baud Rate:	57600 BPS
Data Byte:	8 bits
Parity:	None
Stop Bit:	1

### Modem Cable Pinouts

<i>Switcher End</i>			<i>Controller End</i>	
<i>Pin</i>	<i>Definition</i>		<i>Pin</i>	<i>Definition</i>
1	NC		1	NC
3	TxD	▶	2	RxD
2	RxD	◀	3	TxD
4	NC		4	NC
5	GND		5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

### 2X1 Commands

<i>Command Code</i>	<i>Description</i>
0x01	Port 1 On
0x02	Port 2 On
0x05	Power On/Off

### 4X1 Commands

<i>Command Code</i>	<i>Description</i>
0x01	Port 1 On
0x02	Port 2 On
0x03	Port 3 On
0x04	Port 4 On
0x05	Power On/Off

## **8.0 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.

## **9.0 REGULATORY COMPLIANCE**

The 1372, and 1374 Switchers have been tested for compliance with appropriate FCC and CE rules and regulations and are also RoHS compliant.

The Power Adaptor/Supplies have been tested for compliance with UL, CE and CSA rules and regulations and are also RoHS compliant.

## **10.0 CONTACT INFORMATION**

Should 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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