

4-IN 1-OUT HDMI v1.3 WITH DIGITAL AUDIO SWITCHER

Operation Manual



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1. Introduction

Atlona AT-HD41D is a high performance HDMI v1.3 switcher with separate digital audio input and output. It allows your various HDMI sources to share one HDTV display. Simply pressing one button you can select your desired HDMI source for display on the HDTV, meanwhile the selected digital audio will be passed through the Toslink (Optical Fiber) or Coaxial channel to play on your audio amplifier.

2. Features

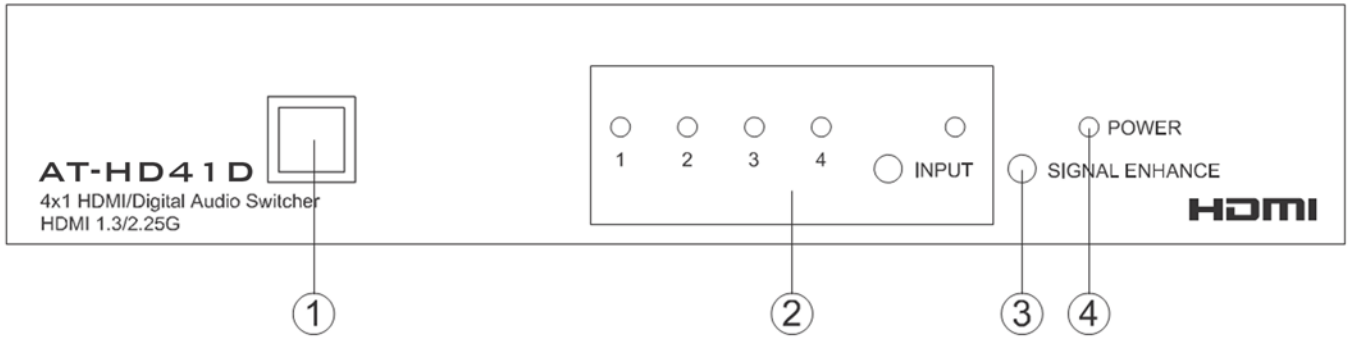
- * HDMI 1.3, HDCP 1.1 and DVI 1.0 compliant.
- * Supports 30/36/48 bit color depth display.
- * Supports High Definition audio - Dolby Digital TrueHD and DTS-HD Master Audio.
- * Auto Signal Enhancement feature can improve signal quality after long distance transmission.
- * LED indicators.
- * Ideal for home theater integration, conference room and retail stores.
- * Supports high resolution input:
PC: VGA, SVGA, XGA, SXGA, UXGA (1600 x 1200) and 1920 x 1200 & HDTV: 480i, 480p, 576i, 576p, 720p, 1080i and 1080p
- * Remote control.
- * Easy to install and simple to operate.

3. Package Contents

1. Atlona AT-HD41D
2. 5VDC Power Supply Adaptor
3. Operation Manual

4. Operation Controls and Functions

4.1 Front Panel



1. Remote control sensor.

2. Input select/Indicators:

Press the "INPUT" button repeatedly to switch to your desired input source (HDMI/Toslink/Coaxial) and the LED will illuminate to indicate which input source is being selected.

3. Signal Enhancement/Indicator:

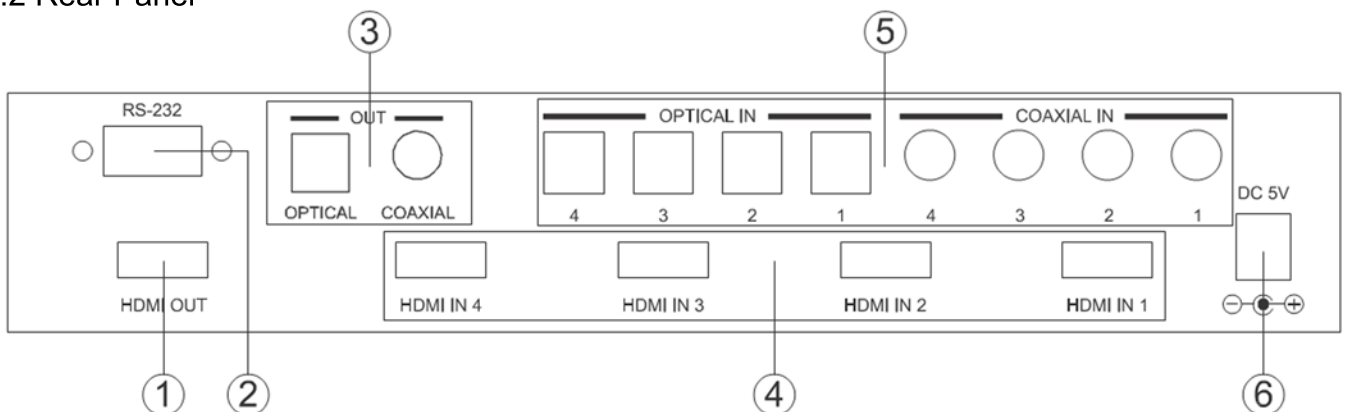
Press the "Signal Enhance" button to turn on this feature to improve signal quality after long distance transmission. Press again to turn off. The LED will illuminate when the signal is enhanced.

This feature is useful when encountering poor picture quality, if an appropriate picture quality is displayed, the use of the SIGNAL ENHANCE button will not produce a visible change.

4. Power LED Indicator:

The LED will illuminate when the power is connected.

4.2 Rear Panel



1. HDMI output:

Connect the HDMI output to the HDMI input of your display using HDMI cable.

2. RS-232:

Connect the 9-pin D-sub female connector to your other control console for remote control.

3. Digital audio output:

- Connects the Toslink output to the Toslink input of your display using optical cable.

- Connects the digital SPDIF output to the digital coaxial input of the display using coaxial cable.

4. HDMI inputs:

Connect your various HDMI sources to each of the HDMI input of the unit using HDMI cables.

5. Digital audio inputs:

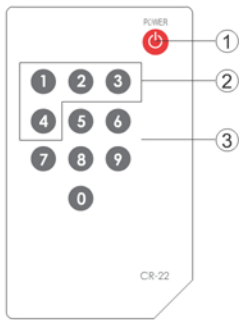
- Connects your various Toslink sources to each of the Toslink input of the unit using optical cables.

- Connects your various S/PDIF sources to each of the coaxial input of the unit using coaxial cables.

6. Power:

Plug the supplied 5VDC power supply into the unit.

4.3 Remote Control



1. Power:
Press the button to turn on/off the unit.
2. Direct input selector:
Press 1, 2, 3 or 4 to select the desired input source.
3. Void buttons (No function).

4.4 RS-232 Protocol

4.4.1 Pin Definition

AT-HD41D			Remote Control Console	
PIN	Definition		PIN	Definition
1	NC		1	NC
2	Tx		2	Rx
3	Rx		3	Tx
4	NC		4	NC
5	GND		5	GND
6	NC		6	NC
7	NC		7	NC
8	NC		8	NC
9	NC		9	NC

* RS-232 transmission format: Baud Rate: 9600 bps
Data bit: 8 Bits Parity: None Stop Bit: 1 bit

4.4.2 Commands

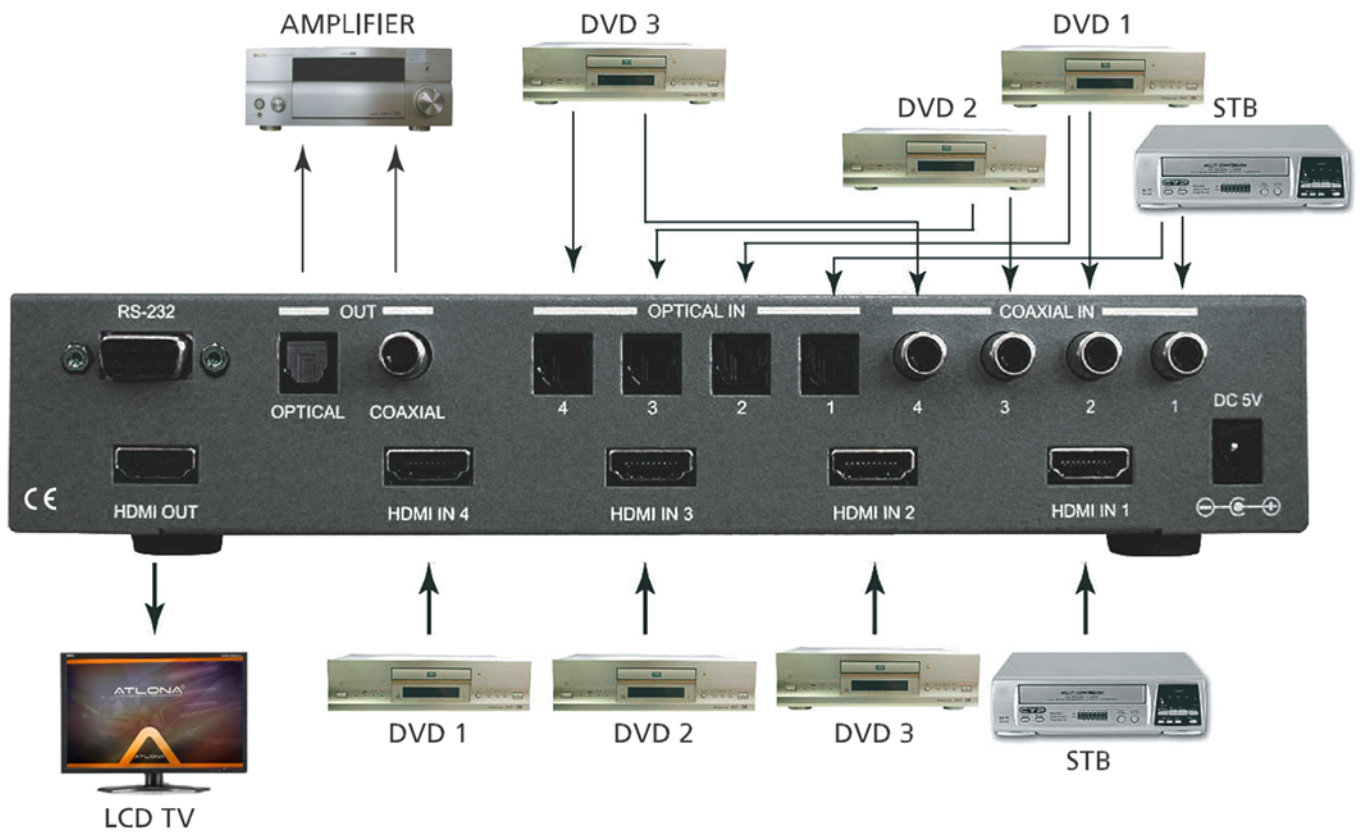
COMMAND	ACTION
"I" + "1"	PORT 1 ON
"I" + "2"	PORT 2 ON
"I" + "3"	PORT 3 ON
"I" + "4"	PORT 4 ON
"S" + "1"	ENABLE SIGNAL ENHANCE
"S" + "0"	DISABLE SIGNAL ENHANCE
"P" + "1"	POWER ON
"P" + "0"	POWER OFF

5. Specifications

5.1 General Specification

- * Frequency bandwidth: 2.25 Gbps (single link)
- * Inputs:
 - 4 x HDMI female ports (Type A connector)
 - 4 x Toslink digital audio out
 - 4 x Coaxial digital audio out
- * Outputs:
 - 1 x HDMI female port (Type A connector)
 - 1 x Toslink digital audio out
 - 1 x Coaxial digital audio out
- * 5VDC power supply
- * Weight: 0.85kgs
- * Dimension: 240 (W) x 90 (D) x 43 (H)mm

6. Connection and Installation



Safeguards

- To reduce the risk of electric shock, do not expose this product to rain or moisture.
- If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.
- Do not modify the wall plug. Doing so will void the warranty and safety features.
- This equipment should be installed near the socket outlet and the device should be easily accessible in case it requires disconnection.
- Avoid excessive humidity, sudden temperature changes or temperature extremes.
- Keep this product away from wet locations such as bathtubs, sinks, laundries, wet basements and swimming pools.
- Use only accessories recommended by ATLONA to avoid fire, shock or other hazards.
- Unplug the product before cleaning. Use a damp cloth for cleaning. Do not use cleaning fluid or aerosols, which could enter the unit and cause damage, fire or electrical shock. Some substances may also mar the finish of the product.

Precautions

- FCC Regulations state that any unauthorized changes or modifications to this equipment not expressly approved by the manufacturer could void the user's authority to operate this equipment.
- Operate this product using only the included external power supply. Use of other power supplies could impair performance, damage the product or cause fires.
- In the event of an electrostatic discharge, this device may automatically turn off. If this occurs, unplug the device, and plug it back in.
- Protect and route power cords so they will not be stepped on or pinched by anything placed on or against them. Be especially careful of plug-ins, or cord exit points from this product.
- Never open or remove unit panels or make any adjustments not described in this manual. Attempting to do so could expose you to dangerous electrical shock or other hazards. It may also cause damage to your AT-HD41D. Opening the product will void the warranty.
- Do not attempt to service the unit. Instead disconnect it and contact your Authorised ATLONA reseller or contact ATLONA directly.

WARRANTY

LIMITED ONE-YEAR WARRANTY

ATLONA by Lenexpo Electronics warrants only to the initial purchaser of this product for a period of one year from the date of purchase from an Authorized ATLONA Reseller, the product will be free of electrical and mechanical defects that materially affect the products operation as described in this users manual. Within this period, ATLONA will, at it's sole option, repair or replace any components, which fail of normal use or refund the net original price.

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