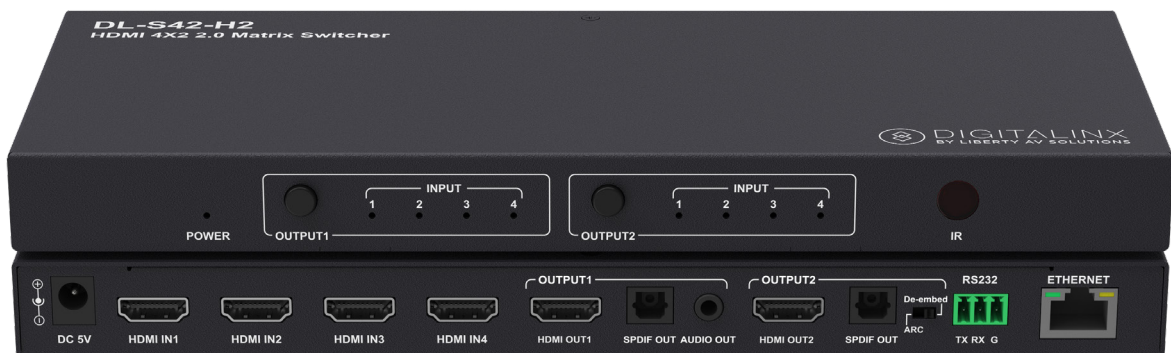




# DIGITALINX

VALUE-ENGINEERED DIGITAL SOLUTIONS

## DL-S42-H2 Quick Install Guide



This guide is for quick installation only.  
For complete owners manual go to [www.libav.com](http://www.libav.com) or use a QR reader to access the manual via QR code below.



Scan QR Code with your Smart-phone or Tablet



## Product Overview

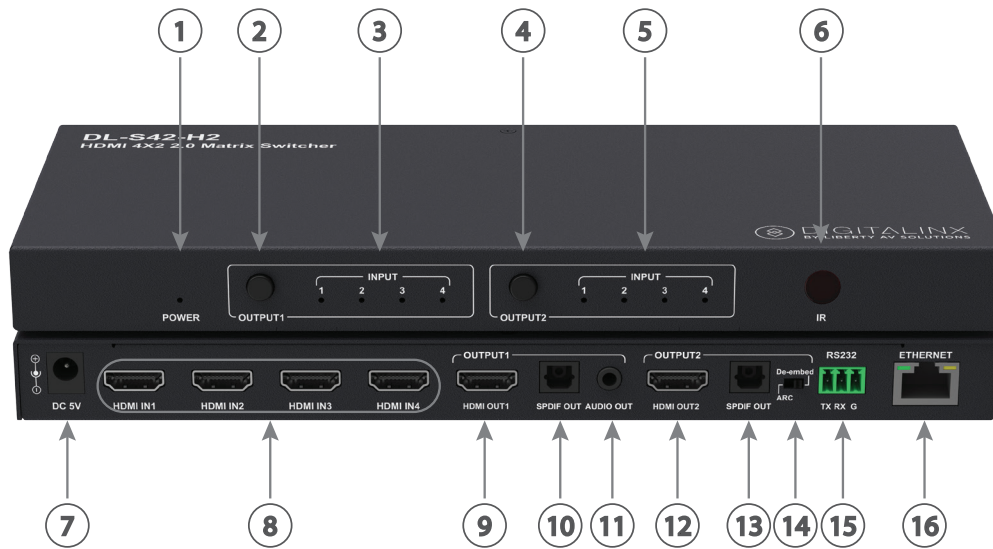
The DigitaLinx DL-S42-H2 is a simple 4x2 HDMI 2.0 matrix switcher that features four HDMI inputs and two HDMI outputs with HDCP 2.2 support and capable of handling resolutions up to 4K@60Hz 4:4:4 / 8 bit color with static and dynamic HDR output support. The DL-S42-H2 supports digital optical audio de-embedding from both outputs and analog audio de-embedding from output 1. The switcher also supports Audio Return Channel (ARC) on output 2, the digital optical audio on output 2 can be configured manually to either pass the HDMI audio stream from the routed HDMI input or from the HDMI / ARC audio stream from the connected TV. Each output port supports auto down scaling from 4K to 1080P independently.

The DL-S42-H2 can be controlled via front panel buttons, IR remote, API commands using RS232 or Ethernet. A web server / GUI is built in that features A/V switching control, automatic display control and input EDID management.

## Package Contents

- DL-S42-H2 HDBaseT Receiver
- (1) Quick Install Guide
- (1) IR Remote
- (1) 3 pin Phoenix Male Connector
- (1) DC5V Power Supply with US, UK, EU and AU adapter plugs
- (2) Mounting Brackets

## Front / Back Panel View



1. POWER LED
  - When ON; Device is powered on
  - When OFF; Device is powered off
2. OUTPUT1 - Output 1 input selection button
3. INPUT LEDs
  - When ON; HDMI (1-4) is selected
  - When OFF; HDMI (1-4) is not selected
4. OUTPUT2 - Output 2 input selection button
5. INPUT LEDs
  - When ON; HDMI (1-4) is selected
  - When OFF; HDMI (1-4) is not selected
6. IR - IR Receiver window
7. DC5V - Power plug input
8. HDMI IN 1-4- HDMI Inputs 1-4
9. HDMI OUT1- HDMI Output 1
10. OPTICAL- Digital audio output - de-embeds multi channel HDMI audio from selected input
11. ANALOG- Analog audio output - de-embeds 2 channel HDMI audio from selected input
12. HDMI OUT2- HDMI Output 2
13. OPTICAL / ARC- Digital audio output - de-embeds multi channel HDMI audio from selected input  
OR via ARC / HDMI from connected TV display
14. OPTICAL / ARC SWITCH- Manual switch for configuring digital audio output
15. RS232- Phoenix connector for RS232 system control
16. Ethernet- RJ45 connector for Ethernet system control

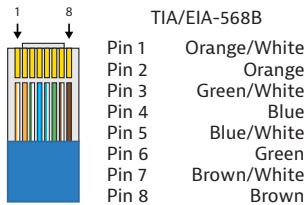
# Connectivity Instructions

1. Verify all components included with the switcher are present before installation.
2. If the switcher is going to be permanently mounted in a rack, attach the mounting brackets of the DL-S42-H2 matrix switcher.
3. Turn off power and disconnect the audio/video equipment by following the manufacturer's instructions.
4. Connect the source devices to the HDMI inputs using HDMI cables that are less than or equal to 5 meters in length for 4k/60Hz signals. For source devices that are further away, it is highly recommended to install an extender such as the Digitalinx DL-HD70 or DL-HD2100.
5. Connect the display devices to HDMI outputs using HDMI cables that are less than or equal to 5 meters in length for 4k/60Hz signals. For display devices that are further away, it is highly recommended to install an extender such as the Digitalinx DL-HD70, DL-HDE100 or DL-HD2100.
6. Connect the audio outputs to an audio amplifier using either the digital or analog outputs.
7. Insert the matrix power supply unit to power on the switcher.
8. Power on attached audio/video devices.
9. Route input to outputs using the matrix front panel buttons, IR remote control, built in web GUI, serial RS232 or Ethernet using telnet port 23.

# Cabling Wiring Requirements

## Ethernet Control

The DL-S42-H2 may be controlled via Ethernet using web browser for web server control or by using telnet commands using port 23. See owners manual online at [www.libav.com](http://www.libav.com) for API.



The TCP/IP port requires a standard straight-through Category 5 or greater cable with the TIA/EIA-568B crimp pattern for optimal operation.

The default settings for the TCP/IP port are:  
IP address: 192.168.1.254 subnet 255.255.255.0

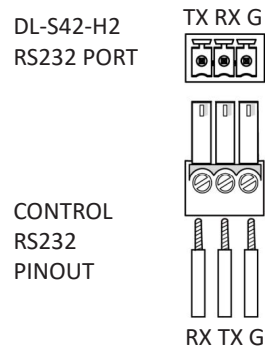
Connect the Ethernet cable between the matrix and a router with a straight-through cable or between the matrix and a PC computer with a crossover cable. To connect to the web server built into the DL-S42-H2 type the default IP address of the switcher into a browser on the PC. Be sure the PC is in the same Network ID of the DL-S42-H2, ie 192.168.1/24.

## RS232 Control

The RS232 connection on the matrix is 3 pin phoenix. See below for RS232 configuration.

- 115200 baud
- 8 Data Bits
- 1 Stop Bit
- Parity = none

Connecting to System Controller



# Technical Specifications

<b>Input/Output Connections</b>	
HDMI Inputs	Four (4) HDMI Type A Receptacle
HDMI Outputs	Two (2) HDMI Type A Receptacle
TCP/IP	One (1) 8P8C Port (Shielded RJ45 Female)
RS232	One (1) 3 pin Phoenix connector
Audio	- One (1) Analog L/R audio outputs, 3.5mm connectors - Two (2) Digital audio outputs, Toslink connectors
<b>Supported Audio, Video, and Embedded Control</b>	
Video Resolutions	Up to 4K@60Hz 4:4:4 8 bit
Maximum Passive HDMI Cable Distance	5m for 4k60 signals
Video Compliance	HDMI 2.0b and HDCP 2.2
Embedded HDMI Audio	Up to PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
De-embedded Audio- Digital and Analog	Analog L/R Out: PCM 2.0 Digital Toslink Out (De-embedded HDMI audio and ARC audio): Up to Dolby 5.1, DTS 5.1
<b>Device Control Parameters</b>	
Ethernet	100BaseT
RS232 Baud Rate	115200 baud
<b>Chassis and Environmental</b>	
Enclosure	Painted Aluminum
Dimensions (H x W x D)	246mm x 22mm x 100.2mm / 9.69" x 0.87" x 3.94"
Shipping Weight	0.62kg / 1.37lb
Operating Temperature	0° to +45° C (+32° to +113° F)
Operating Humidity	10% to 90%, Non-condensing
Storage Temperature	-20° to +70° C (-4° to +140° F)
Storage Humidity	10% to 90%, Non-condensing
<b>Power, ESD, and Regulatory</b>	
Power Supply	100V-240VAC / 50-60 Hz
Power Consumption	3.3W (Max.)
ESD Protection	8kV air, 4kV contact
Product Regulatory	FCC, CE, RoHS
<b>Other</b>	
Standard Warranty	5 years
Included Accessories	Quick Install Guide, IR Remote, (1) 3 Pin Phoenix Connector, Rack Mounting Clips with Screws, (1) AC power adapter with US, UK, EU and AU power plugs

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches.

Thank you for your purchase.

For Technical Support please call our toll free number at  
800-530-8998 or email us at [supportlibav@libav.com](mailto:supportlibav@libav.com)

[www.libav.com](http://www.libav.com)

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