



DIGITALINX  
VALUE-ENGINEERED DIGITAL SOLUTIONS

## DL-HDM44A-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

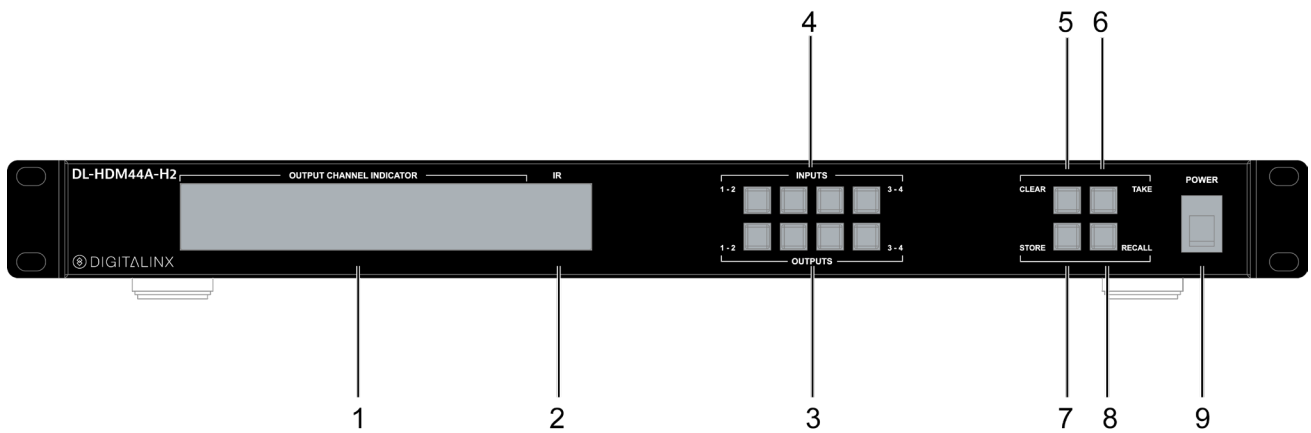
The DigitaLinx DL-HDM44A-H2 is a four input by four output HDMI 2.0 matrix switcher with HDCP 2.2 support and capable of handling resolutions up to 4K@60Hz 4:4:4 / 8 bit color with static and dynamic HDR output support for each channel. The matrix features advanced independent EDID management control for each HDMI input as well as an Easy EDID analyzer. The analog and digital audio outputs on the DL-HDM44A-H2 can be set to follow the HDMI video route or can be independently routed either by API or web control interface. Built-in re-clocking circuitry ensures the switcher is backwards compatible with sources with older HDMI version chip sets.

The DL-HDM44A-H2 can be controlled via front panel buttons, front panel IR, external IR, remote IR, RS232, and Ethernet. The matrix includes a simple IR remote control to allow IR switching. The matrix also features a full command set for RS232 and Ethernet control with third-party control systems, plus control via a web user interface.

## Package Contents

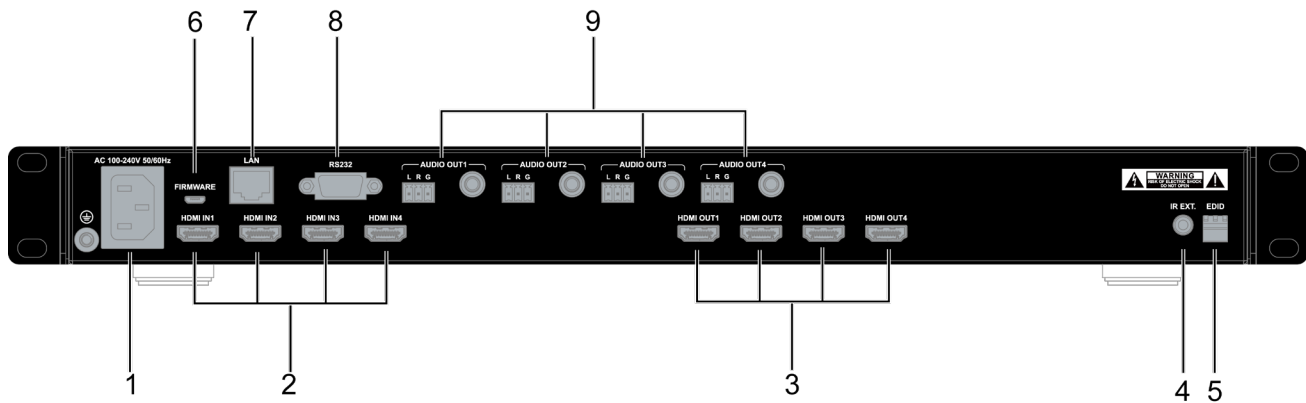
- DL-HDM44A-H2 Matrix Switcher
- Quick Install Guide
- (1) Matrix IR Remote
- (1) IR Receiver (38KHz)
- (1) AC power adapter with US, UK, EU and AU power plugs
- (4) Phoenix Male Connector (3.5mm, 3 Pins)
- (2) Rack mounting clips with mounting screws

## Front Panel View



1. **OUTPUT CHANNEL INDICATOR** - Indicates input for output port 1-4
2. **IR** - Receives signals from IR remote
3. **INPUT 1-4** - Input 1-4 selection buttons
4. **OUTPUT 1-4** - Output 1-4 selection buttons
5. **CLEAR** - Clear button, clears the selection operation
6. **TAKE** - Take button, implements input selection
7. **STORE** - Store button, stores the matrix routes to preset
8. **RECALL** - Recall button, loads the matrix routes from preset
9. **POWER SWITCH** - Power switch for on/off control of matrix

## Rear Panel View



1. **AC** - AC power cord input
2. **HDMI IN (1-4)** - HDMI input ports for connections to HDMI video sources
3. **HDMI IN (1-4)** - HDMI output ports for connections to displays
4. **IR EXT.**- 3.5mm IR input port for connection to IR extension cable
5. **EDID** - EDID switch for EDID management
6. **FIRMWARE** - USB port firmware updates
7. **LAN** - RJ45 port for LAN connection to network or control system for telnet control
8. **RS232** - DB9 port for connection to control system for serial control
9. **AUDIO OUT** - Audio de-embedded outputs for 1-4; phoenix for analog 2 channel audio and RCA for digital S/PDIF multichannel

# 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 supplied rack ears to the sides of the DL-HDM44A-H2 matrix.

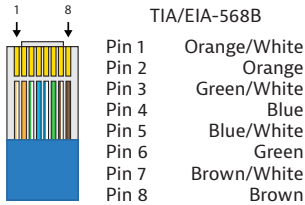
**Note:** The matrix requires one rack unit (1 RU) of space. It is recommended that you leave an empty rack space above and below the DL-HDM44A-H2 for additional cooling.

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 1.5 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, DL-HDE100 or DL-HD2100.
5. Connect the display devices to HDMI outputs using HDMI cables that are less than or equal to 1.5 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. If IR extension is required, connect the TRS 3.5 mm plug IR RX to the matrix IR EXT port, ensuring the IR receiver eye is placed in clear view of the handset used to control.
7. Insert the matrix power supply included and switch on power located on the front panel. Check that the front panel LED screen is on to indicate the matrix is ready for use.
8. Power on attached audio/video devices.
9. Switch between sources and displays using the matrix front panel buttons, IR remote control, serial RS232, or LAN. To set a route using the front panel of the DL-HDM44A-H2, press the desired Input button (Source) and desired Output button (Display), then press Take.

# Cabling Wiring Requirements

## Ethernet Control

The DL-HDM44A-H2 may be controlled via Ethernet through a web browser interface.



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

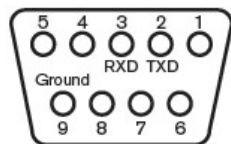
The default settings for the TCP/IP port are:  
IP address: 192.168.0.178

Connect the Ethernet cable between to the matrix and a router with a straight-through cable or between the matrix and a computer with a crossover cable.

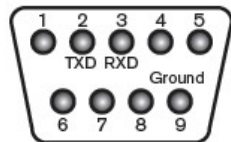
## RS232 Control

The RS232 connection on the matrix is female DB9. User can use a USB to UART cable or a direct serial cable for matrix control. See below for control system configuration.

- 9600 baud
- 8 Data Bits
- 1 Stop Bit
- Parity = none



Female connector - 9 holes



Male connector - 9 holes

# Technical Specifications

<b>Input/Output Connections</b>	
HDMI Inputs	Four (4) HDMI Type A Receptacle
HDMI Outputs	Four (4) HDMI Type A Receptacle
IR	One (1) 3.5mm TRS
TCP/IP	One (1) 8P8C Port (Shielded RJ45 Female)
RS232	One (1) DB9 Port Female
Power	One (1) IEC C14
Audio	- Four (4) Analog L/R audio outputs, 3-Pin 3.5mm Phoenix connectors - Four (4) Digital S/PDIF audio outputs, RCA connectors
<b>Supported Audio, Video, and Embedded Control</b>	
Video Resolutions	Up to 4K@60Hz 4:4:4 8 bit Color Depth: 1080p 48bit / 4K 24bit
Maximum Passive HDMI Cable Distance	1.5m for 4k60 signals
Video Compliance	HDMI 2.0b and HDCP 2.2
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD, and DTS-HD Master Audio
De-embedded Audio	Analog L/R Out: PCM 2.0 Digital RCA S/PDIF Out: Up to Dolby 5.1, DTS 5.1
<b>Device Control Parameters</b>	
IR Carrier Frequency Range	38kHz at 5 volts
Ethernet	100BaseT
RS232 Baud Rate	9600 baud
<b>Chassis and Environmental</b>	
Enclosure	Painted Aluminum
Dimensions (H x W x D)	43.5 mm x 440 mm x 300 mm (1.71 in x 17.32 in x 11.81 in) – 1 RU
Shipping Weight	4.22kg (9.30 lbs.)
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	60W (Max.)
ESD Protection	8kV air, 4kV contact
Product Regulatory	FCC, CE, RoHS
<b>Other</b>	
Standard Warranty	5 years
Diagnostic Indicators	System LCD
Included Accessories	Quick Install Guide, IR Remote, IR Receiver, Rack Mounting Ears 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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**LIBERTY**  
AV SOLUTIONS

11675 Ridgeline Drive  
Colorado Springs, Colorado  
80921 USA  
Phone: 719-260-0061  
Fax: 719-260-0075  
Toll-Free: 800-530-8998