

DVDO

DVDO-Matrix-44

4K 4x4 HDMI Matrix Switcher with Audio Outputs & HDR



DVDO-Matrix-44 is a compact matrix switcher with four HDMI inputs and four HDMI outputs, allowing to route independently up to four HDMI sources to four separate displays.

It supports HDMI signals with resolutions up to 4K60 4:4:4 with an 18Gbps bandwidth.

Each HDMI output includes two separate de-embedded audio outputs: one coaxial output and one analog L/R output.

It supports ARC, HDR, 4K to 1080p downscaling as well as advanced EDID management.

The unit can be controlled via front panel buttons, IR, RS-232 and IP with an intuitive web GUI.

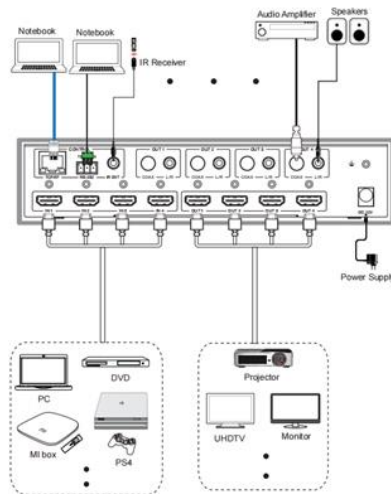
Features

- HDMI 2.0, HDCP 2.2 / 1.4 and DVI 1.0 compliant
- Video resolutions up to 4K2K@60Hz (YUV 4:4:4)
- Supports 18Gbps video bandwidth
- Individual 4K -> 1080p scaling for each output
- Audio de-embedding with separate coaxial & analog L/R analog outputs for each HDMI output
- ARC audio return to the coaxial outputs only
- HDMI audio formats include PCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio & DSD
- Support HDR 10 / 10+
- Advanced EDID management
- Control via front panel buttons, IR, RS-232 and IP with intuitive web GUI
- Compact design for easy and flexible installation

Applications

- Conference Rooms
- Hospitality
- Digital Signage
- Houses of Worship
- Education
- Restaurants
- Retail
- Residential

Application Diagram



Technical Specifications

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2/1.4
Video Bandwidth	18Gbps
Video Resolutions	4K2K 60/50/30Hz 4:4:4, 4K2K 60/50Hz 4:2:0, 1080p, 1080i, 720p, 480p, 480i, all HDMI 3D TV formats, all PD resolutions including 1920x1200
Color Space	RGB, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	1080p, 4K30Hz, 4K60Hz (YCbCr 4:2:0): 8/10/12-bit, 4K60Hz (YCbCr 4:4:4): 8-bit
HDMI Audio Formats	PCM 2.0/5.1/7.1CH, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Coaxial Audio Formats	PCM 2.0, Dolby Digital / Plus, DTS 2.0/5.1
L/R Audio Formats	PCM 2.0CH
HDR Support	HDR10, HDR10+. Dolby Vision, HLG
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Inputs	4 x HDMI [Type A, 19-pin female]
Outputs	4 x HDMI [Type A, 19-pin female] 4 x L/R audio out [3.5mm Stereo Mini-jack] 4 x Coax audio out [RCA]
Control	1 x TCP/IP [RJ45], 1 x RS-232 [3-pin phoenix connector], 1 x IR EXT [3.5mm Stereo Mini-jack]
Mechanical	
Housing	Black Metal Enclosure
Dimensions	220mm (W) × 105mm (D) × 44mm (H)
Weight	792g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 12V/2.5A (Locking connector)
Power Consumption	10W (Max); 1.56W (Standby mode)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)