

DVDO

DVDO-Matrix-22

4K 2x2 HDMI Matrix Switcher with Audio Outputs & HDR



DVDO-Matrix-22 is a compact matrix switcher with two HDMI inputs and two HDMI outputs, allowing to route independently up to two HDMI sources to two separate displays.

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

It can de-embed the audio from the HDMI output A into separate optical and analog L/R audio outputs.

It also supports HDR and provides EDID management.

The unit can be controlled via the front panel buttons and remote control.

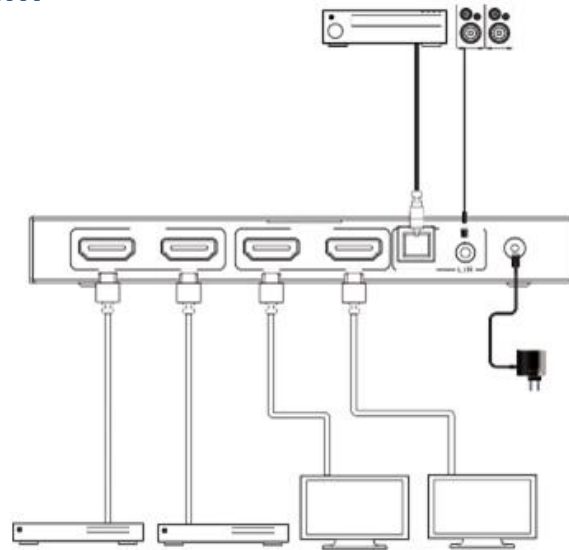
Features

- HDMI 2.0, HDCP 2.2 / 1.4, DVI 1.0
- Video resolutions up to 4K2K@50/60Hz (YUV 4:4:4)
- Supports 18Gbps video bandwidth
- Audio de-embedding from HDMI Output A with separate optical & analog L/R outputs
- Analog audio formats: PCM 2.0
- Digital optical audio formats: LPCM2.0/2.1CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS 5.1, DTS-ES 6, DTS-HDMA 5.1, DTS HD-HRA 5.1
- Supports Dolby Vision, HDR & HDR 10+
- EDID management (AUTO/COPY/STD)
- Control via front panel buttons and IR remote control
- 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 2.2/1.4 / DVI 1.0
Video Bandwidth	18Gbps
Video Resolutions	Up to 4K2K@50/60Hz (YCbCr 4:4:4)
High Dynamic Range	HDR, HDR 10+, HLD, Dolby Vision
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
Color Depth	8-bit, 10-bit, 12-bit
HDMI Audio Formats	PCM2.0/5.1/7.1CH, Dolby 5.1, DTS5.1, Dolby-TrueHD, DTS-HD
Optical Audio Formats	LPCM[2.0/2.1]CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS 5.1, DTS-ES 6, DTS-HDMA 5.1, DTS HD-HRA 5.1
L/R Audio Formats	Analog stereo PCM 2.0
ESD Protection	Human-body Model: ±8kV (Air-gap discharge), ±4kV (Contact discharge)
Connections	
Inputs	2 x HDMI [Type A, 19-pin female]
Outputs	2 x HDMI [Type A, 19-pin female] 1 x L/R audio out [3.5mm Stereo Mini-jack] 1 x Optical audio out [S/PDIF]
Mechanical	
Housing	Black Metal Enclosure
Dimensions	144mm (W) × 59.5mm (D) × 18mm (H)
Weight	208g
Power Supply	Input: AC 100 - 240V 50/60Hz Output: DC 5V/1A
Power Consumption	2.7W (Max)
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)