

DVDO

DVDO-Matrix-42

4K 4x2 HDMI Matrix Switcher

DVDO-Matrix-42 is a 4x2 HDMI matrix switcher with HDCP 2.2 compatibility, it allows up to four Ultra HD 4K sources to be independently routed to two Ultra HD displays.

It features resolutions up to 4K@60Hz 4:4:4 8-bit. It supports digital optical audio de-embedding from output 2 and analog audio de-embedding from output 1. The switcher also supports ARC function on output 2.

It supports matrix switching control through IR and API commands, EDID management via RS232 interface is also provided, it also allows automatic / manual CEC control to TURN ON/OFF the connected display by input signal status detection.



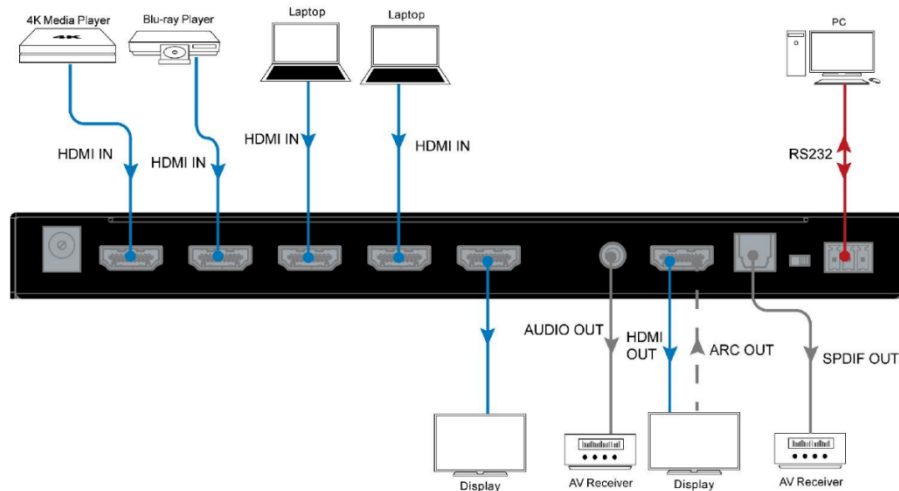
Features

- Routes four HDMI sources to two 4K HDR Ultra HD displays
- HDCP 2.2 compliant
- Supports up to 4K Ultra HD and DCI resolutions (4096x2160@60Hz)
- Each output supports scaling from 4K to 1080P independently
- Analog audio de-embedded from output 1
- Digital audio de-embedded from HDMI output 2 or HDMI ARC from TV
- Supports 12-bit Deep Color, 3D, Lip Sync and loss-less HD audio formats pass through
- Rich control options, include RS-232, IR and push button controls, CEC function

Applications

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

Application Diagram



Technical Specifications

Input	4 x HDMI IN (Type-A female connector)
Output	2 x HDMI OUT (Type-A female connector)
Video Signal Type	HDMI with 4K@60 4:4:4, HDR 10, HLG & Dolby Vision, HDCP 2.2
Input/Output Resolution Supported	VESA: 800x6008, 1024x7688, 1280x7688, 1280x8008, 1280x9608, 1280x10248, 1360x7688, 1366x7688, 1440x9008, 1600x9008, 1600x12008, 1680x10508, 1920x12008 SMPTE: 720x576P6, 1280x720P6,7,8, 1920x1080P2,5,6,7,8, 3840x21602,3,5,6,8, 4096x21602,3,5,6,8 2 = at 24 Hz, 3 = at 25 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = 60 Hz
Audio Format Supported	HDMI IN/OUT: Fully supports audio formats in HDMI 2.0 specification, including PCM 2.0/5.1/7.1, Dolby TrueHD, Dolby Atmos, DTSHD Master Audio and DTS:X AUDIO OUT: Only support PCM 2.0; S/PDIF OUT: Support PCM 2.0/5.1, Dolby digital and DTS up to 5.1 Channel.
Maximum Data Rate	18 Gbps
Control Method	IR, RS232, Front Panel Button
Operating Temperature	0°C to 45°C (32°F to 113°F)
Storage Temperature	-20°C to 70°C (-4°F to 158°F)
Humidity	10% to 90%, non-condensing
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) / ±4kV (Contact discharge)
Power Supply	DC 5V 1A
Power Consumption (Maximum)	3.3W
Device Dimensions (W x H x D)	220mm x 21mm x 100.2mm / 8.66" x 0.83" x 3.94"
Product Weight	0.48kg / 1.06lb