

HDA24A-48G

48Gbps 2:4 HDMI 2.1 Splitter With Audio De-embedding



HDA24-48G

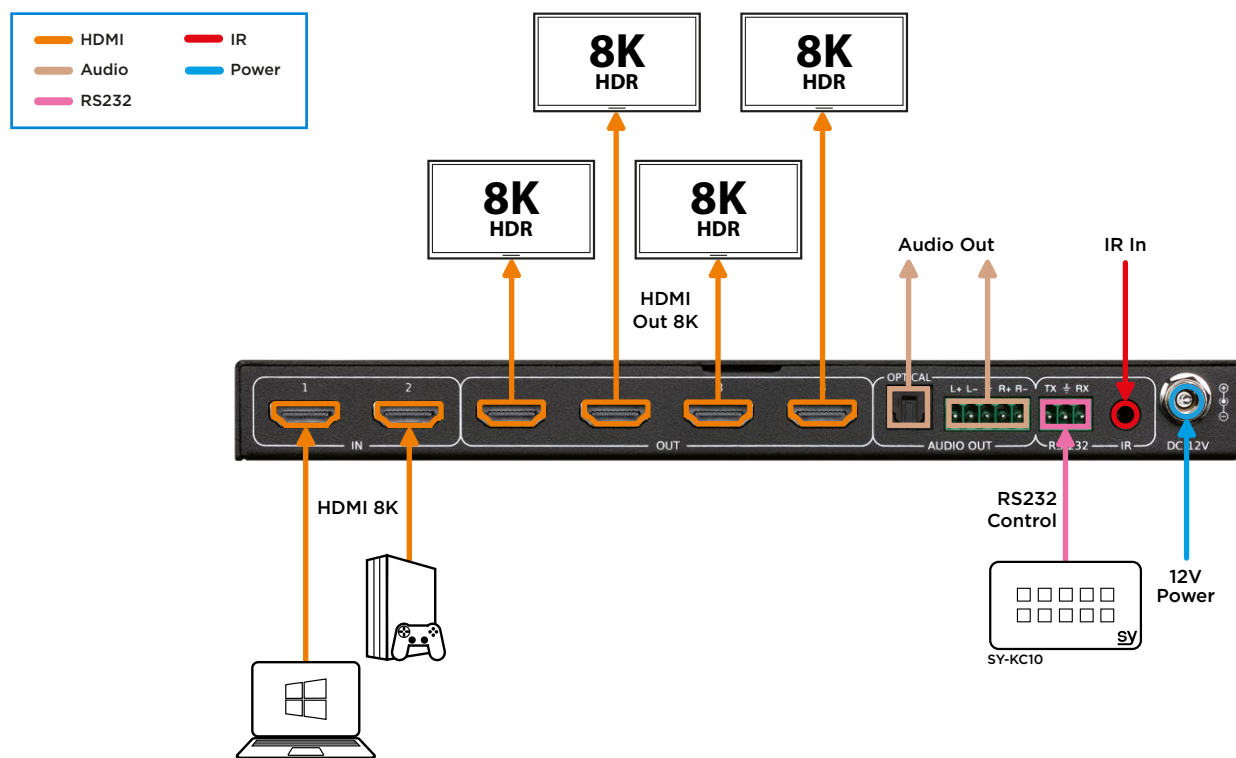
This 2x4 splitter provides two HDMI inputs that can be switched and distributed to four HDMI outputs simultaneously, supporting video resolutions up to 8K@60 4:2:0 12-bit on both input and output. Each output offers independent 8K>4K/2K downscaling along with HDR-to-SDR conversion, ensuring full flexibility across mixed-resolution displays.

The unit also includes audio de-embedding via digital optical and balanced/unbalanced analogue outputs with adjustable gain. Additional features include auto/manual input switching and advanced EDID management for streamlined integration into professional AV environments.

FEATURES

- Dual HDMI inputs with 4 HDMI outputs (2:4)
- HDMI 2.1b - 48Gbps video bandwidth
- All resolutions up to 8K60 4:2:0 12 bit, 8K30 4:4:4 12 bit, 4K120 4:4:4 12bit
- 8K 4K/2K independent downscaling on each output
- HDR to SDR conversion option (per output)
- EDID and HDCP 2.3 advanced management
- ALLM (Auto Low Latency Mode) & VRR (Variable Refresh Rate)
- Test Pattern Generator
- Each HDMI output can power an AOC cable
- RS232, IR control

CONNECTIVITY ILLUSTRATION



HDA24A-48G

48Gbps 2:4 HDMI 2.1 Splitter With Audio De-embedding



SPECIFICATIONS

PART NUMBER	SY-HDA24A-48G		
VIDEO RESOLUTIONS/FORMATS	Up to 8K@60HZ 4:2:0 12bit, 8K@30HZ 4:4:4 12bit, 4K@120HZ 4:4:4 12bit		
BANDWIDTH	48Gbps		
COLOUR DEPTH	8/10/12bit		
COLOUR SPACE	RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0		
HDMI STANDARD	HDMI 2.1		
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG		
HDCP	Compatible with all versions up to 2.3		
VIDEO BANDWIDTH	48Gbps		
HDMI AUDIO FORMAT	LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD		
AUDIO FORMATS	Optical Up to LPCM/Dolby/DTS 5.1CH	Audio De-embedding Output LPCM 2CH	
INPUTS	Video 2x HDMI 2.1		
OUTPUTS	Video 4x HDMI 2.1	Analogue Audio 1x L/R Audio	Digital Audio 1x Digital SPDIF Toslink
CONTROL	RS232 IR		
POWER SUPPLY	12V DC 2A Barrel		
POWER CONSUMPTION	6.24W (Max).		
OPERATION TEMPERATURE	-0 ~ 40°C		
STORAGE TEMPERATURE	-20 ~ 60°C		
OPERATING HUMIDITY	20% to 80%, relative humidity, non-condensing		
STORAGE HUMIDITY	10% to 90%, relative humidity, non-condensing		
WEIGHT AND DIMENSIONS	Weight (net) 0.62Kg	Size (WHD) 220 x 21.5 x 110mm	
WHAT'S IN THE BOX	1x HDA24A-48G 1x IR Remote 1x IR Wideband Receiver (1.5M) 1x 3-WAY 3.5MM Phoenix Connector 1x 5-WAY 3.5MM Phoenix Connector 2x Mounting Ears 4x Machine Screws 1x 12V/1A Multinational Locking Power Supply 1x User manual		

REGULATORY COMPLIANCE



SY-HDA24A-48G Data Sheet 01. Details subject to change with no prior notice. ©SY Electronics 2025