

Technical Specifications

TL-AD-HD

Features at a Glance

- Supports 4K HDMI video
- HDCP 2.2 Compliant
- 3 encoded audio outputs, digital coaxial/digital optical/analog stereo audio
- Encoded audio format signal compatibility: Dolby & DTS
- 7.1/5.1 multi-channel



The TL-AD-HD is an audio converter used to extract encoded surround sound from HDMI sources to optical audio output. It can also decode up to 5.1 channels and down mix to 2ch analog stereo audio via RCA L/R and COAX digital output without any other external equipment. Content from multi-channel sources such as Blu-ray players, set-top boxes and game consoles can be distributed to multi-channel and two-channel-capable zones simultaneously, ensuring compatibility, reducing system complexity and eliminating the expense of separate dedicated sources for each zone. You can listen to digital audio sources such as DVD and CD players or digital computer audio on your analog sound system, preserving your current investment.

Specifications

I/O Connections	
HDMI IN	One HDMI Type A connector
HDMI OUT	One HDMI Type A connector
Optical(Digital audio)	One LC connector
COAX(Digital audio)	One Black RCA connector
L+R(analog audio)	One White & Red RCA connector
12V DC Power	One 5.5 mm outside Diameter, 2.1 mm inside Diameter
Supported Audio and Video	
Maximum Video Compatibility	HDMI IN: 4kx2K@60Hz 4:2:0 8bit; 1080p@60Hz 4:4:4 16bit HDMI OUT: 4kx2K@30Hz 4:4:4 8bit; 1080p@60Hz 4:4:4 16bit
Video Compliance	HDMI IN: HDMI1.4, HDCP2.2 HDMI OUT: HDMI1.4, HDCP1.4
Embedded Audio	Up to PCM 8 channel, Dolby Digital TrueHD and DTS-HD Master Audio
Input DDC Signal	5.0 Volts p-p(TTL)
Input Video Signal	0.5-1.0 Volts p-p
Audio format signal compatibility for Down-mixing	LPCM, Dolby Digital 5.1/ Dolby Digital Plus 7.1/Dolby TrueHD 5.1/Dolby TrueHD 7.1, and DTS 5.1/DTS-HD Master Audio 5.1/DTS-HD Master Audio 7.1
Audio output format	PCM 2.0

Chassis and Environmental	
Enclosure	Painted aluminum
Dimensions(WxHxD)	132mm x 21.5mm x 77mm
Shipping Weight	0.66kg
Operating Temperature (Environment)	0°C - +50°C
Operating Humidity(Chassis)	10% - 90%
Storage Temperature(Environment)	-10°C - +50°C
Storage Humidity(Environment)	10% - 90%
Power, ESD and Regulatory	
Maximum Power Consumption	10 Watts
Power Supply	12V DC
ESD Protection	8kV
Regulatory	CE,FCC
Other	
Standard Warranty	1 Year
Indicators	Power, HDMI signal
Included Items	User Manual, Power adapter

Dimensional Drawings

