KanexPro

HDMI 2.0 Audio Embedder

VER 1.0

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

Table of Contents

1. Introduction

The KanexPro HAECOAX4 Audio Embedder is designed to embed or insert audio signals coming from a digital optical or analog stereo source into an HDMI Display or Sink device. Both the HDMI input and outputs support video resolutions up to 4K2K@50/60Hz (YUV444). The Embedder supports 10bits HDR (High Dynamic Range) pass through and HDMI high resolution digital audio formats, along with LPCM 2CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio. Audio sampling rates up to 192 kHz are supported for the highest fidelity. HDCP 2.2 and CEC bypass are also supported. Covered by KanexPros limited 3 Year warranty, rest assured that HAECOAX4 is the best tool for your next project

2. Features

☆ Embeds multi-channel optical (SPDIF) or Line analog audio to HDMI output

☆ Optical audio supports LPCM 2CH, Dolby Digital 2/ 5.1CH, DTS 2/5.1CH

☆ Analog audio supports PCM2.0

☆ HDMI 2.0b (18Gbps), HDCP 2.2 and DVI 1.0 compliant

☆ Video resolutions up to 4K2K@50/60Hz (YUV444)

☆ Supports HDMI High Bit Rate(HBR) audio pass through

☆ 10bits HDR (High Dynamic Range) pass through
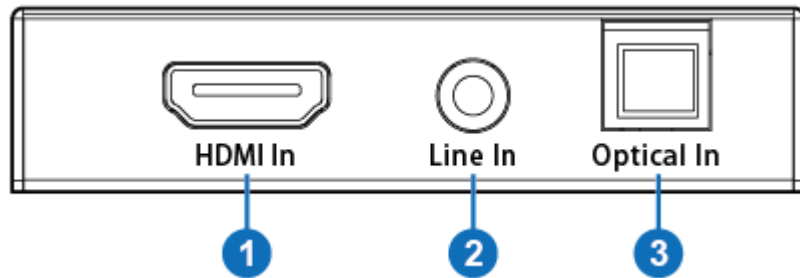
☆ Supports CEC bypass

3. Package Contents

① 1 x HDMI 18Gbps Audio Embedder

② 1 x 5V/1A Power Adapter

③ 1 x User Manual

4. Specifications

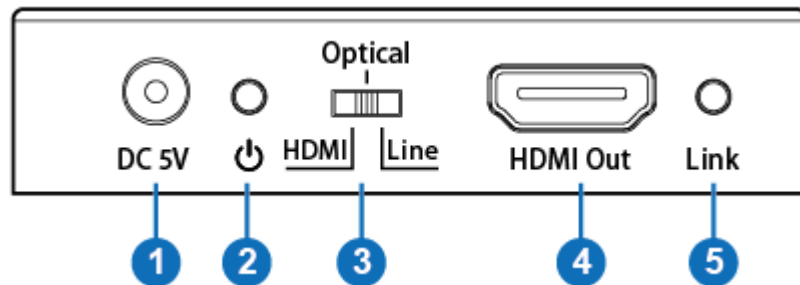| Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	up to 4K2K@50/60Hz(YUV4:4:4),4K2K@ 30Hz,1080P@120Hz and 1080P3D@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:0
Color Depth	10-bit, 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Optical Audio Formats	LPCM 2CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH
L/R Audio Formats	Analog Stereo 2CH
ESD Protection	Human body model—$\pm$8kV (Air-gap discharge) &$\pm$ 4kV (Contact discharge)
Connections	
Input Ports	1x HDMI Type A [19-pin female] 1x Line In [3.5mm Stereo Mini-jack] 1x Optical In [S/PDIF]
Output Ports	1×HDMI Type A (19-pin female）
Mechanical	
Chassis Material	Metal Enclosure
Silkscreen Color	Black
Dimensions	73.5mm [W] x 60.7mm [D] x 17mm [H]
Weight	122g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	1.25W
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)

5. Operation Controls and Functions

5.1 Front Panel

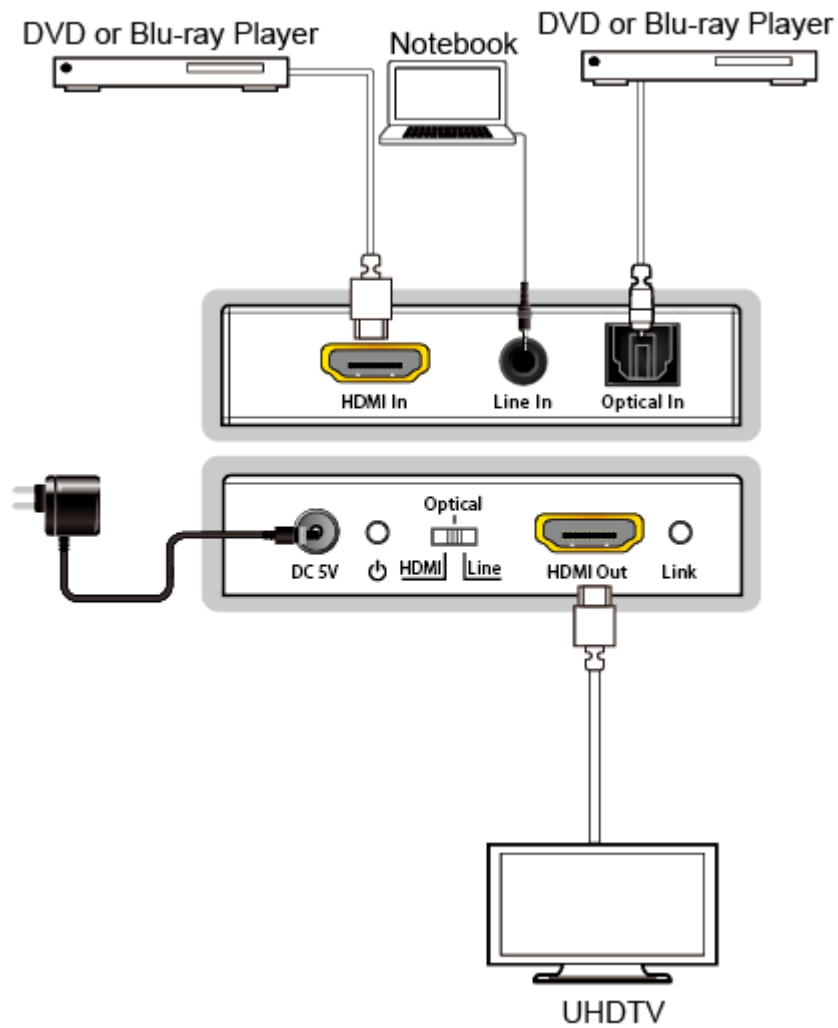| Number	Name	Function description
1	HDMI In	Connect to HDMI source device, such as DVD player or Set top box
2	Line In	Analog audio input port.
3	Optical In	Optical audio input port.

5.2 Rear Panel

Number	Name	Function description
1	DC 5V	Connect 5V/1A adapter to AC wall outlet for power supply.
2	Power LED	System power indicator.
3	HDMI/Optical/ Line	User can select input audio format according to HDMI, Optical or Line. ■ When the dial switch is dialed to HDMI, the HDMI Out port output audio from HDMI In port input. ■ When the dial switch is dialed to Optical, the HDMI Out port output audio from optical In port

		input.
		■ When the dial switch is dialed to Line, the HDMI Out port output audio from Line In port input.
4	HDMI Out	Connect to HDMI display device such as TV/Projector.
5	Link LED	The LED will illuminate when detected HDMI output signal.

6. Application Example

7. Customer Service

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. There terms and conditions may be changed without prior notice.

① **Warranty**

The limited warranty period of the product is fixed 3 (three) years.

② **Scope**

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized distributor only.

③ **Warranty Exclusions:**

Warranty expiration.
Factory applied serial number has been altered or removed from the product. Damage, deterioration or malfunction caused by:
✓ Normal wear and tear.
✓ Use of supplies or parts not meeting our specifications.
✓ No certificate or invoice as the proof of warranty.
✓ The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
✓ Damage caused by force majeure.
✓ Servicing not authorized by distributor.
✓ Any other causes which does not relate to a product defect. Shipping fees, installation or labor charges for installation or setup of the product.

④ **Documentation:**

Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defeat has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of distributor.

Remarks: For further assistance or solutions, please contact your local distributor, or email directly to us at support@kanexpro.com