KanexPro®

HDMI 2.0 Audio Embedder

Embed or insert audio signals coming from a digital optical or analog stereo source into an HDMI device.

MPN: HAECOAX4

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.

Industry Standard HDCP 2.2 & 4K/60

HDCP 2.2 authentication is present always on this matrix ensuring proper handshake of the protected content. It also maintains resolutions up to 4K-4096x2160@24, 30, 50 or 60Hz, 3840x2160@24, 25,30, 50 or 60Hz and 2560x1080@60Hz displaying 21:9 aspect ratios. 1920 x 1200 or full HD 1080p/60 is a standard for all our matrix switchers.

Applications:

Insert Audio directly into an HDMI stream. Ideal for voice over, broadcasts, streaming, and content creation.

SIMPLIFY HDMI AUDIO

Bring together separate audio and video sources into one HDMI signal

1. **Video Turorials:** Easily insert audio directly into the HDMI signal coming out of the HDMI Camera.

2. **Live Stream Gaming:** Connect your microphone directly into your stream without the use of software.

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

SPECIFICATIONS

TECHNICAL

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18 Gbps
Video Resolution	up to 4K2K@50/60Hz(YUV4:4:4),4K2K@30Hz,1080P@120Hz and 1080P3D@60Hz
Color Space	RGB, YCbCr4:4:4,YCbCr4:2:2, 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—±8kV (Air-gap discharge) & ±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	1xHDMI Type A (19-pin female)

MECHANICAL

Housing	Metal Enclosure
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 Tempurature	-20°C - 60°C / -4°F ~ 140°F
Relative Humidity	20-90% RH (non-condensing)ECO

APPLICATION DIAGRAM

Laptop

Power
Supply

Blu-Ray
Player

Blu-Ray
Player