

ENFORCER®

4K HDMI Audio Extractor

MAP-A599-01Q

Installation Manual



The ENFORCER 4K HDMI Audio Extractor extracts audio signals from any HDMI source to digital optical or analog stereo outputs to send to an audio system such as an audio/video receiver or amplifier. EDID management includes three presets—TV, bitstream, and 2-channel. It supports video pass-through resolutions up to 4K2K@50/60Hz.

- Supports video resolutions up to 4K2K@50/60Hz
- 10bits High Dynamic Range (HDR) pass through and 4:4:4 chroma subsampling
- HDMI 2.0b (full 18Gbps), HDCP 2.2, and DVI compliant
- Extracts HDMI audio to multi-channel optical (S/PDIF) or L/R analog stereo audio
- Allows simultaneous HDMI audio, multi-channel optical (S/PDIF), and L/R analog stereo
- Optical audio supports LPCM 2Ch, Dolby Digital 2/5.1Ch, and DTS 2/5.1Ch
- Supports HDMI High Bit Rate (HBR) audio pass through
- Supports uncompressed audio LPCM
- Supports compressed audio DTS Digital, Dolby Digital (DTS-HD and Dolby True HD)
- Audio sample rates up to 192kHz
- Supports CEC bypass
- Includes UL-listed 5VDC power supply

Parts List

1x Audio extractor

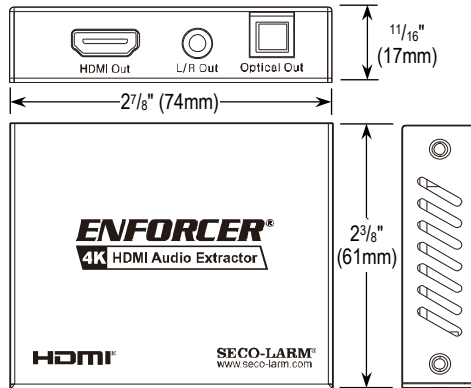
1x Power adaptor

1x Manual

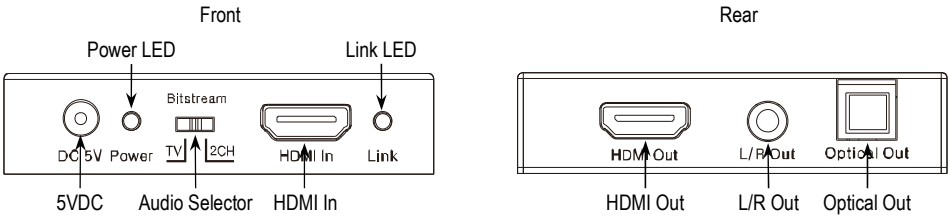
Specifications

Video formats supported		HDMI 2.0b, HDCP 2.2
Color space		RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color depth		10bit, 12bit
Audio formats supported	HDMI (Pass-through)	LPCM 2.0/5.1//7.1, Dolby Digital, DTS 5.1, Dolby TrueHD, Dolby Digital Plus (DD+), DTS HD Master, Dolby Atmos, DTS-X
	Optical	LPCM 2.0/5.1, Dolby Digital 2.0/5.1, DTS 2.0/5.1
L/R Audio formats		Analog stereo 2CH
Output video		HDMI
Resolutions supported		4K2K@50/60Hz, 4K2K@30Hz, 1080p@120Hz, 1080p 3D@60Hz
Video bandwidth		18Gbps
Inputs		HDMI Type A 19-pin female
Outputs	Video	HDMI Type A 19-pin female
	Audio	3.5mm L/R stereo, optical (S/PDIF)
Max. HDMI cable length (IN/OUT)		4K@60Hz, 16' (5m) / 4K@30Hz, 32' (10m) / 1080p@60Hz, 50' (15m)
Operating voltage		5VDC
Power supply		1A@5VDC (1 adaptor)
ESD protection (human body model)		±8kV (air-gap discharge), ±4kV (contact discharge)
Current draw		1000mA
Operating humidity		20~90% non-condensing
Operating temperature		32°~104° F (0°~40° C)
Dimensions		2 ⁷ / ₈ "x1 ¹¹ / ₁₆ "x2 ³ / ₈ " (74x17x61 mm)
Weight		4.6-oz (130g)

Dimensions



Overview



- **5VDC** – Power input
- **Power LED** – On when system is powered
- **Audio Selector** – Select the audio format
- **HDMI In** – to HDMI source
- **Link LED** indicates HDMI input is detected

- **HDMI Out** – to HDMI display
- **L/R Out** – to external L/R audio input (amplifier, TV, powered speakers, etc.)
- **Optical Out** – to external optical audio input (amplifier, AV recorder, etc.)

Installation

1. Determine the location of the extractor and how much HDMI and audio cable is needed.
2. Connect an HDMI cable between the extractor's *HDMI IN* and the HDMI source device.
3. Connect another HDMI cable between the extractor's *HDMI OUT* and the HDMI display.
4. Connect an audio device to the extractor's *Optical Out* port.
5. Connect the extractor's L/R Out to the L/R audio input of another device (amplifier, powered speakers, TV input, etc.).
6. Select the desired audio output using the *Audio Selector* switch, choosing between *TV*, *Bitstream*, or *2CH*.
 - a. **TV** – sets the audio output to the standard TV audio format.
 - b. **Bitstream** – sets the audio output to a bitstream format, including DTS5.1, Dolby 5.1, PCM2.0, etc.
 - c. **2CH** – sets the audio output to the standard stereo LPCM format.
7. Connect the power adapter and power up the extractor and other connected device (the use of a surge protector is highly recommended).

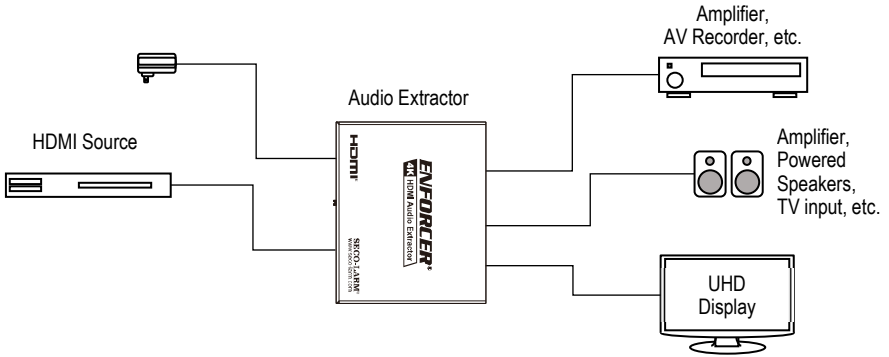
NOTES

- All wiring connections should be done before power is connected. Unplug the power adaptor before connecting or disconnecting any wiring.
- Premium high-speed HDMI cables are highly recommended.
- HDMI cable lengths should be kept within the maximums shown in Fig. 1.

Fig. 1 – Maximum Cable Length Chart

Resolution	4K@60MHz	4K@30MHz	1080p@60MHz
HDMI	16' (5m)	32' (10m)	50' (15m)

Sample Application



FCC COMPLIANCE STATEMENT

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. OPERATION IS SUBJECT TO THE FOLLOWING TWO CONDITIONS: (1) THIS DEVICE MAY NOT CAUSE HARMFUL INTERFERENCE AND (2) THIS DEVICE MUST ACCEPT ANY INTERFERENCE RECEIVED, INCLUDING INTERFERENCE THAT MAY CAUSE UNDESIRE OPERATION.

Notice: The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

IMPORTANT NOTE: To comply with the FCC RF exposure compliance requirements, no change to the antenna or the device is permitted.

IMPORTANT: Users and installers of this product are responsible for ensuring this product complies with all national, state, and local laws and statutes related to monitoring and recording audio and video signals. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or statutes.

IMPORTANT: Users and installers of this product are responsible for ensuring that the installation and configuration of this product complies with all national, state, and local laws and codes. SECO-LARM will not be held responsible for the use of this product in violation of any current laws or codes.

California Proposition 65 Warning: These products may contain chemicals which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

WARRANTY: This SECO-LARM product is warranted against defects in material and workmanship while used in normal service for one (1) year from the date of sale to the original customer. SECO-LARM's obligation is limited to the repair or replacement of any defective part if the unit is returned, transportation prepaid, to SECO-LARM. This Warranty is void if damage is caused by or attributed to acts of God, physical or electrical misuse or abuse, neglect, repair or alteration, improper or abnormal usage, or faulty installation, or if for any other reason SECO-LARM determines that such equipment is not operating properly as a result of causes other than defects in material and workmanship. The sole obligation of SECO-LARM and the purchaser's exclusive remedy, shall be limited to the replacement or repair only, at SECO-LARM's option. In no event shall SECO-LARM be liable for any special, collateral, incidental, or consequential personal or property damage of any kind to the purchaser or anyone else.

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