

IMPORTANT:
Go to www.extron.com for the complete user guide, installation instructions, and specifications before connecting the product to the power source.

The Extron HAE 100 4K Plus is an audio de-embedder that extracts the audio from an HDMI signal, including audio from 4K sources. The HAE 100 4K Plus provides an analog output for stereo or dual mono signals, as well as a S/PDIF digital audio output that supports two-channel or digital multi-channel signals.

Mounting

The HAE 100 4K Plus can be placed on a desktop or tabletop using the included rubber feet, or mounted to a rack or furniture (see the *HAE 100 4K Plus User Guide*, available at www.extron.com, for mounting options and instructions).

Cabling

Rear Panel Features and Cabling

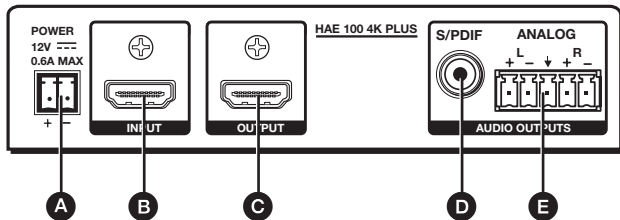
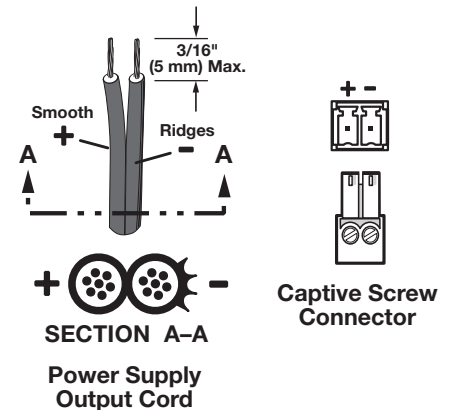


Figure 1. HAE 100 4K Plus Rear Panel

- A Power input** — Connect the provided power supply to the 3.5 mm, 2-pole captive screw power receptacle (see the image at right).

ATTENTION:

- Do not connect the power supply before reading the Attention in the Power Supply section of the *HAE 100 4K Plus User Guide*.
- Ne branchez pas la source d'alimentation externes avant d'avoir lu les mises en garde dans la section « Power Supply » du *HAE 100 4K Plus User Guide*.



- B HDMI input** — Connect an HDMI input source into this female HDMI type A connector.

NOTE: By default, the EDID stored at the HDMI input is set to 1080p at 60 Hz with 2-channel audio. EDID can be configured using Extron PCS software (see **Configuration** on the next page).

- C HDMI output** — Connect an HDMI output device into this female HDMI type A connector.

NOTE: It is not required to connect an HDMI output device to extract audio from the HDMI input signal.

- D S/PDIF audio output** — Connect a S/PDIF audio output device into this female RCA connector. This connector outputs digital S/PDIF audio formats (2-channel LPCM, Dolby Digital, or DTS) that are extracted from the HDMI input signal.

- E Analog audio output** — Connect an audio output device to this 5-pole, 3.5 mm captive screw connector (see figure 2 below for connector wiring). This connector outputs 2-channel LPCM (converted to analog) that is extracted from the HDMI input signal.

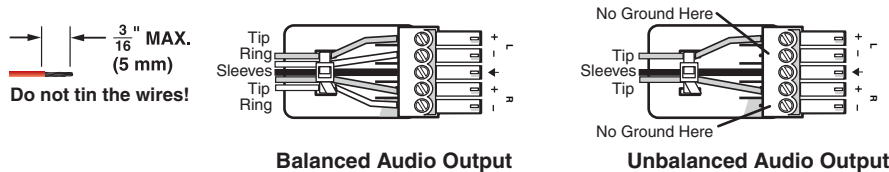


Figure 2. Analog Output Connector Wiring

ATTENTION:

- Connect the sleeve to the ground (Gnd) terminal. Connecting the sleeve to a negative (-) terminal will damage the audio output circuits.
- Connectez le manchon à la terminaison terre (Gnd). Connecter le manchon à une terminaison négative (-) endommagera les circuits de la sortie audio.

Front Panel Features and Cabling

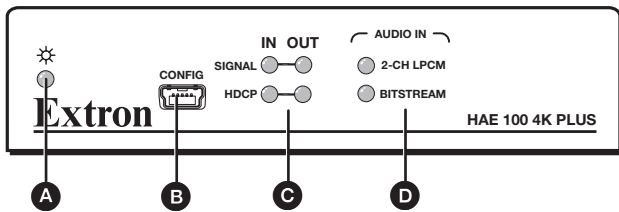


Figure 3. HAE 100 4K Plus Front Panel

- A Power LED** — The LED indicator lights when the unit is receiving power.
- B Config port** — Connect a control PC to this female Mini-B USB Config port to update the firmware, configure various functions of the unit, and view the current status of the unit.
- C Input and Output LEDs** — These four LEDs provide the status of the HDMI input and output:
 - Signal — Input LED lights when the unit is receiving a signal on the HDMI input. Output LED lights when a sink device is connected to the HDMI output.
 - HDCP — Input LED lights when the input signal is HDCP encrypted. Output LED lights when an HDCP compliant sink device is detected and the output is encrypted.
- D Audio input LEDs** — These two LEDs provide the status of the various audio input functions:
 - 2-CH LPCM — This LED lights when the incoming embedded audio signal is a 2-channel Digital LPCM audio format.
 - Bitstream — This LED lights when the incoming embedded audio signal is a Dolby Digital or DTS audio format.

Configuration

Several HAE 100 4K Plus features can be configured using Extron PCS software or SIS commands:

- **Extron Product Configuration Software (PCS):** To configure the unit using PCS, download the software from www.extron.com (see the *HAE 100 4K Plus Series User Guide* for details).
- **Simple Instruction Set™ (SIS) commands:** SIS commands can be sent from a PC to the HAE 100 4K Plus using Extron DataViewer or other command interface (see the “SIS Commands” section of the *HAE 100 4K Plus Series User Guide*).

For information on safety guidelines, regulatory compliances, EMI/EMF compatibility, accessibility, and related topics, see the [Extron Safety and Regulatory Compliance Guide](#) on the Extron website.