

**IMPORTANT:**  
Go to [www.extron.com](http://www.extron.com) for the complete user guide, installation instructions, and specifications before connecting the product to the power source.

# HAE 100 4K • Setup Guide

The Extron HAE 100 4K is an audio de-embedder that extracts the audio from an HDMI signal, including audio from 4K sources. The HAE 100 4K 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 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 User Guide*, available at [www.extron.com](http://www.extron.com), for mounting options and instructions).

## Cabling

### Rear Panel Features and Cabling

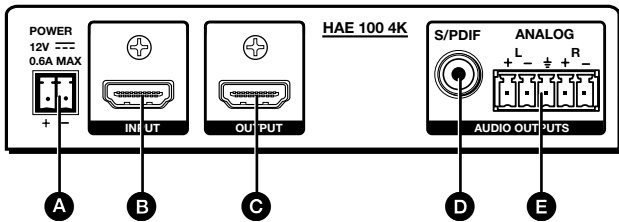
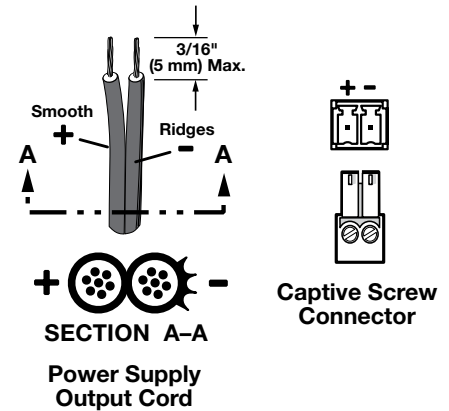


Figure 1. HAE 100 4K Rear Panel

**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 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 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 720p at 60 Hz with 2-channel audio. EDID can be configured using Extron PCS software or SIS commands (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 device.

**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).

**NOTE:** By default, the audio input format is configured for 2-channel audio. In this configuration, the S/PDIF and Analog outputs are active, but only 2-channel audio will pass. The audio setting can be configured using PCS or SIS commands (see **Configuration** on the next page).

**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).

**NOTE:** By default, this output is configured for stereo audio. It can be configured for dual mono audio using PCS or SIS commands (see **Configuration** on the next page).

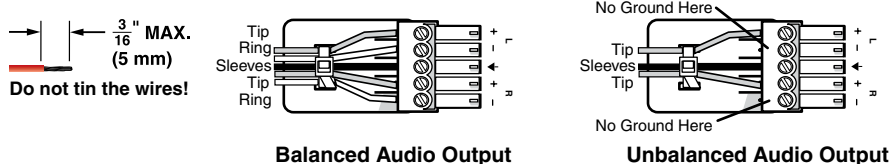
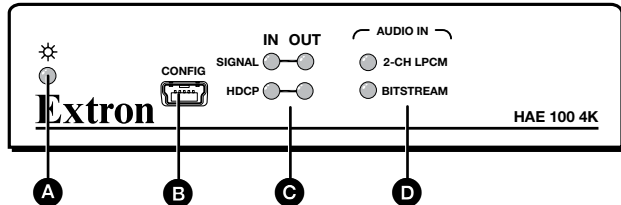


Figure 2. Analog Output Connector Wiring

**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 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 type B mini 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 features, including EDID Minder®, 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](http://www.extron.com) (see the *HAE 100 4K Series User Guide* for details).
- **Simple Instruction Set™ (SIS) commands:** SIS commands can be sent from a PC to the HAE 100 4K using Extron DataViewer or other command interface (see the “SIS Commands” section of the *HAE 100 4K Series User Guide*).

68-2802-50  
Rev. A  
03 16

|  |  |  |   |   |   |   |  |
|--|--|--|---|---|---|---|--|
| <b>Extron Headquarters</b><br>+800.633.9876 Inside USA/Canada Only | <b>Extron Europe</b><br>+800.3987.6673<br>Inside Europe Only       | <b>Extron Asia</b><br>+65.6383.4400<br>+65.6383.4664 FAX | <b>Extron Japan</b><br>+81.3.3511.7655<br>+81.3.3511.7656 FAX | <b>Extron China</b><br>+86.21.3760.1568<br>+86.21.3760.1566 FAX | <b>Extron Middle East</b><br>+971.4.299.1800<br>+971.4.299.1880 FAX | <b>Extron Australia</b><br>+61.8.8351.2188<br>+61.8.8351.2511 FAX | <b>Extron India</b><br>1800.3070.3777<br>(Inside India Only)<br><br>+91.80.3055.3777<br>+91.80.3055.3737 FAX |
| <b>Extron USA - West</b><br>+1.714.491.1500<br>+1.714.491.1517 FAX | <b>Extron USA - East</b><br>+1.919.850.1000<br>+1.919.850.1001 FAX | +31.33.453.4040<br>+31.33.453.4050 FAX                   |   |   |   |   |  |