



HAE 100 • Setup Guide

The Extron HAE 100 HDMI® Audio De-Embedder is used to extract embedded audio from an HDMI signal and output it as an analog stereo output or an S/PDIF output.

This guide provides basic instructions for an experienced installer to set up and operate the HAE 100.

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

CAUTION: Installation and service must be performed by authorized personnel only.

Installation

Step 1 — Turn Off the HAE 100 and All Devices

Turn the input and output devices off and unplug their power cords. Verify that the HAE 100 is disconnected from the power source before proceeding.

Step 2 — Connect HDMI Input Device

Connect an input device to the HDMI input connector (②).

Step 3 — Connect HDMI Output Device

If necessary, connect an output device to the HDMI output connector (③).

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

Step 4 — Connect Audio Output Devices

The HAE 100 extracts audio using the following connectors. Connect audio output devices to at least one of the following connectors.

- **S/PDIF output (④)** — This connector extracts digital S/PDIF audio. Connect an audio output device to this connector using an RCA cable.
- **Analog output (⑤)** — This connector extracts 2-channel stereo analog audio. Connect an audio output device to this connector using a cable with a balanced or unbalanced 3.5 mm, 5-pole captive screw connector (see figure 2).

Step 5 — Power On the HAE 100 and All Devices

Wire the power supply (see figure 3) and connect it to the power connector (①). When power is applied to the unit, the front panel LED lights.

Connect the power cords of the input and output devices and turn them on. The sound should be audible. If an output display is connected to the HDMI output (③), the picture should appear.

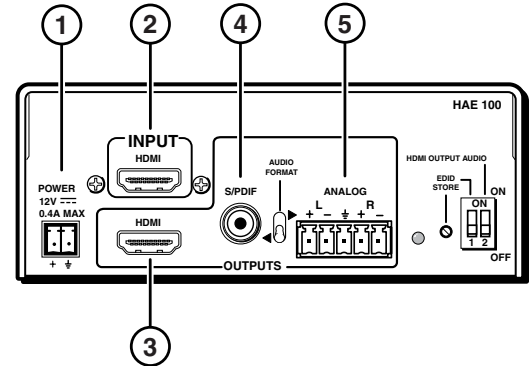


Figure 1. HAE 100 Rear Panel

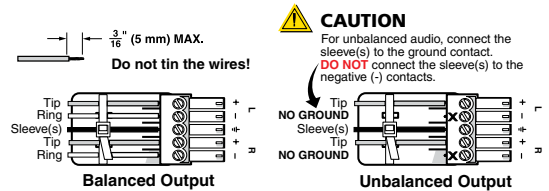


Figure 2. Analog Output Connector Wiring

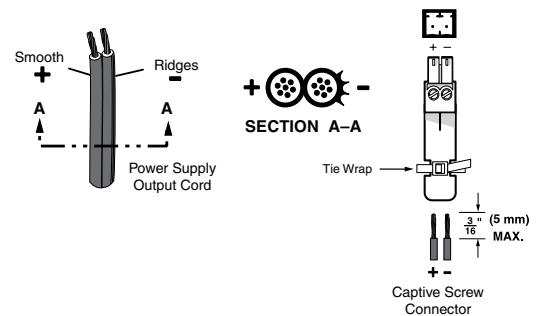


Figure 3. Power Supply Wiring

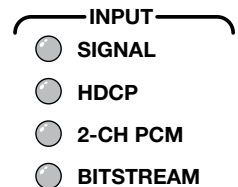
Front Panel Overview

LEDs

These LEDs indicate the status of the input and output signal that is being sent through the HAE 100 and the devices that are connected to it.

Input LEDs

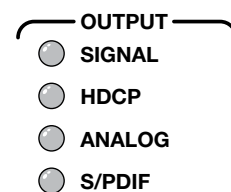
- **Signal** — This LED lights when the unit is receiving a signal from the HDMI input.
- **HDCP** — This LED lights when the HDMI input signal is encrypted with High-bandwidth Digital Content Protection (HDCP).
- **2-CH PCM** — This LED lights when the embedded audio signal is 2-channel digital linear pulse code modulation (LPCM).
- **Bitstream** — This LED lights when the embedded audio signal is a Dolby Digital® or DTS® format.



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Output LEDs

- **Signal** — This LED lights when the unit is providing video on the HDMI output connector.
- **HDCP** — This LED lights when the HDMI output signal is encrypted with HDCP.
- **Analog** — This LED lights when the unit is providing analog audio from the 3.5 mm, 5-pole captive screw output connector.
- **S/PDIF** — This LED lights when the unit is providing digital audio from the S/PDIF RCA output connector.



Config Port

If necessary, connect a control PC to this port using a USB cable. Use this port to update firmware and check the status of various functions.



Rear Panel Overview

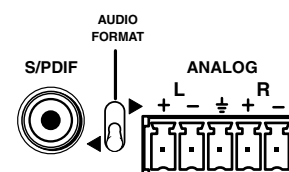
Audio Format Switch

A toggle switch located on the rear panel is used for selecting the audio format that the HAE 100 will extract from the HDMI signal. The position of this toggle switch also governs the EDID presented to the source device connected to the input of the HAE 100.

- Set this switch to the **Analog (up)** position to extract 2-channel stereo audio from the HDMI input signal.

NOTE: If the embedded audio is 2-channel LPCM, the audio can be output from the analog output and the S/PDIF output simultaneously.

- Set this switch to the **S/PDIF (down)** position to extract digital S/PDIF audio from the HDMI input signal.



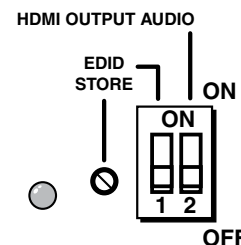
Configuration DIP Switches

A 2-pole DIP switch located on the rear panel is used to configure the following features.

- **EDID Store** — Set this switch to the **On (up)** position to enable the EDID store function (see the "EDID Store Button and LED" section below). Set this switch to the **Off (down)** position to disable the EDID store function.

NOTE: The EDID Store LED is unlit when this function is disabled.

- **HDMI Output Audio** — Set this switch to the **On (up)** position to send audio to the HDMI output, the Analog output, and/or the S/PDIF output simultaneously. Set this switch to the **Off (down)** position to send audio only to the analog output and/or S/PDIF output.



EDID Store Button and LED

A recessed push-button is used to store EDID from a display that is connected to the HDMI output. With the EDID Store switch set to the **On (up)** position, press the recessed push-button to learn and store EDID information.

Use the LED to determine the status of the EDID storage.

- **Off** — EDID storage is disabled. Factory default EDID is being used.
- **Red** — EDID storage is enabled, but external EDID has not been stored. Factory default EDID is being used.
- **Green** — EDID storage is enabled and external EDID is stored.
- **Amber** — EDID storage is enabled and EDID is being loaded. The LED turns green when stored.

Mount the HAE 100

If necessary, mount the HAE 100. For mounting information, see the *HAE 100 User Guide*.

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