

The SA1-LPEA is a single channel, one way audio Interface box designed to be used with 8Ohm or 70V speakers and Power Over Ethernet I/P cameras. It contains a 2.5Watt speaker power amplifier to drive a 70v or 8 Ohm speaker at 2.5 Watts. The SA1-LPEA also features installer friendly termination of the cable runs and a standard RCA or 3.5mm audio input connector. The SA1-LPEA can be connected to “line level” output of a POE I/P camera for public address and security applications.

**SA1-LPEA location and power**

The SA1-LPEA interface box is designed to be located any place along the I/P camera CAT5 cable run. It must be located in between the I/P camera and the router or switcher as shown in figure 1.

**NOTES-**

1. The I/P camera MUST be connected and operating before the SA1-LPEA’s power indicator will illuminate.
2. The SA1-LPEA will not work with standard I/P cameras.

**Speaker Cable Run**

Run a 2 conductor 22 gauge (shielded or unshielded) cable from the SA1-LPEA to the speaker. See connection diagram below. With 70V speakers, this cable run may be up to 1000’ in length. For 8 Ohm speakers the cable may be up to 250’ in length.

**Speaker type**

If using a 70v speaker, be sure to use the 2 Watt tap and “common” on the speaker transformer OR use the closest possible Wattage tap match. For example, 1.5W, 2W, 2.5W or 3W.

**Speaker Switch**

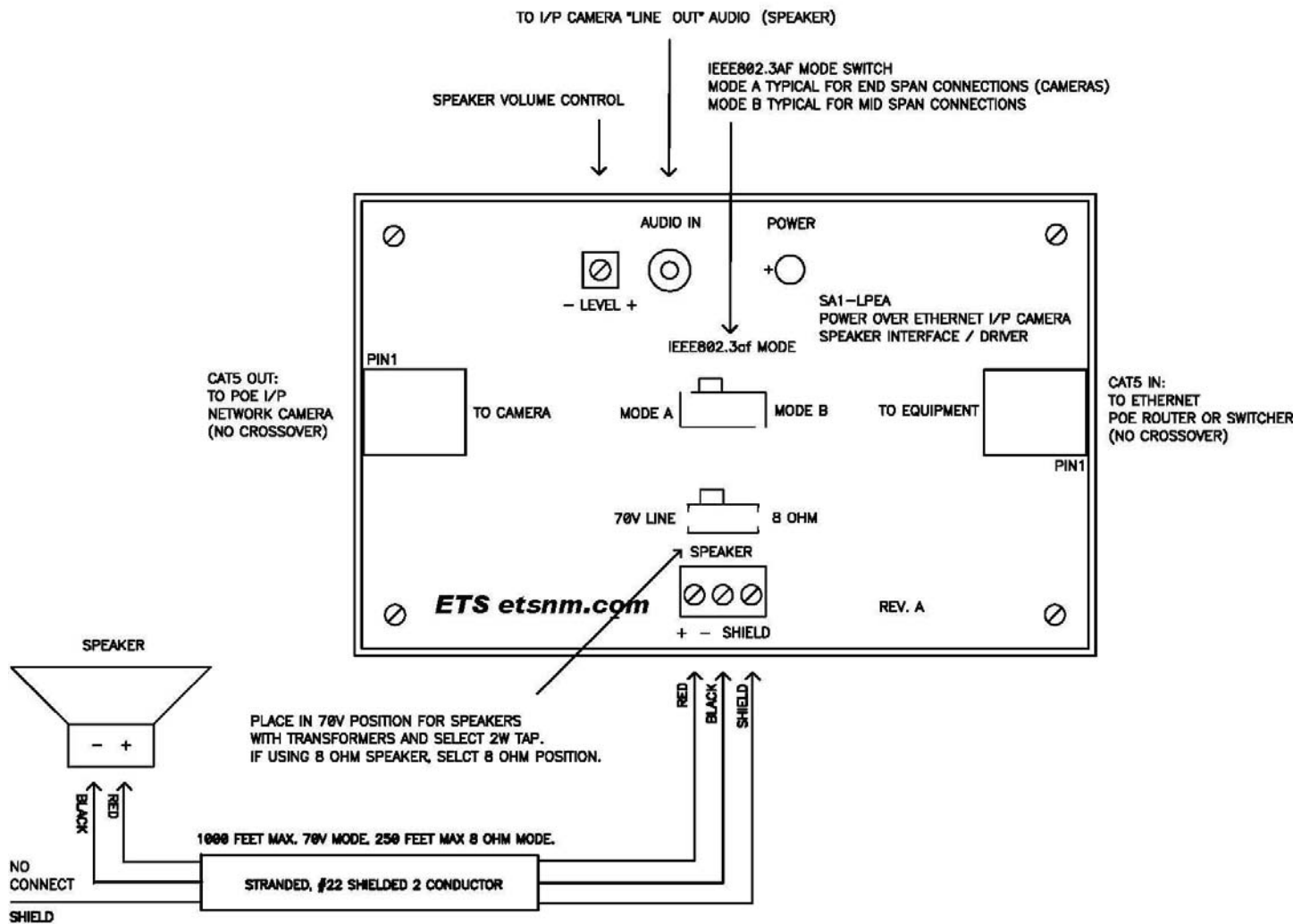
Place the “speaker” switch on the SA1-LPEA in the 70V position.

If using an 8 Ohm speaker, place the switch in the 8 Ohm position.

**Adjusting the speaker volume**

Adjust the audio input level for an acceptable volume level on the connected speaker.

**SA1-LPEA Mode switch:** The SA1-LPEA supports Both Modes A and B of IEEE802.3af POE. The SA1-LPEA is pre-configured for the most common use of the “end point” POE IEEE802.3af standard (mode A). If the power LED does not illuminate in this position, try the mode B position (mid span).



## Warranty

All ETS products carry a one year parts and labor warranty. This warranty does not cover damages as a result of misuse, improper handling of the unit or exposure to extreme temperatures or moisture. At its discretion, ETS reserves the right to repair or replace this unit under the conditions of the warranty. If you experience problems with your equipment call ETS at: 505-888-3923 to obtain a return authorization number. Equipment requiring repair beyond the warranty period or units that have been damaged or are not covered under the warranty can be repaired by ETS for a minimal cost under most conditions.

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by  
**ETS Inc.**