



SC Amp™

The world's only dedicated audio test amplifier



SCAmp

Introduction

SC Amp is the world's only dedicated audio test amplifier. Specifically designed for the making audio measurements, it incorporates several features unique to the needs of loud-speaker testing, and unnecessary features found in regular audio amplifiers have been eliminated to keep production line operation simple and error-proof.

Rugged and easy to use, SCAmp is a mono amplifier with low distortion (THD <0.025%) and a low noise floor (>100dB). Fixed gain eliminates calibration errors as there is no gain knob to be accidentally knocked or tweaked when

it is in use. It supports the application of a DC voltage offset to the AC signal for testing transducers under adverse conditions. Overload/output protection prevents damage due to shorting or overload. SC Amp's integrated impedance measurement uses Listen's unique patent pending high accuracy single channel impedance measurement method to offer dual channel accuracy using just a single channel, meaning that full electrical and audio tests can be carried out using just 2 channels. SC Amp integrates seamlessly with Listen's SoundCheck audio test and measurement software and will also work well with other brands of test system.

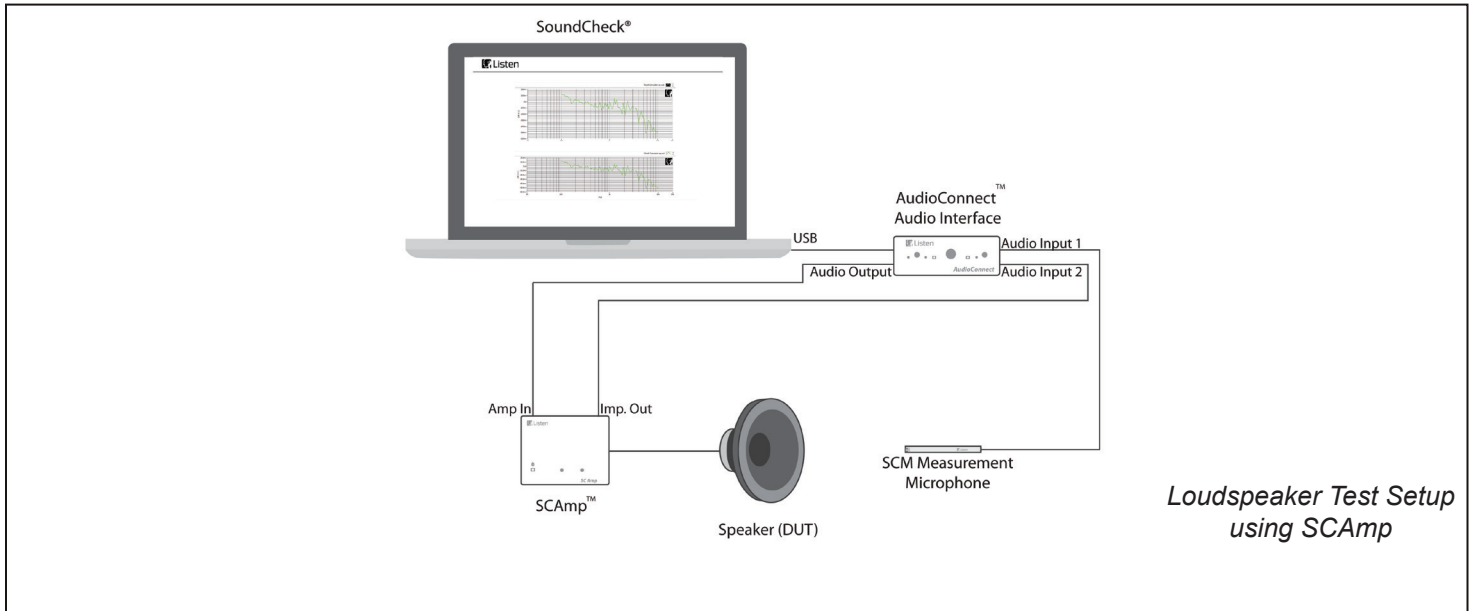
The rugged 2-unit high enclosure can be mounted in a 19" rack. The front panel contains only an on/off switch and LEDs to indicate power on, level, and DC offset. This simple front panel keeps operation easy and error-proof as there is no possibility of knobs or buttons being accidentally changed. The rear panel features a current monitor output for impedance measurement (thus eliminating the need for a separate impedance box), a DC input with on/off switch, and a ground lift to isolate the amplifier from the input signal ground to eliminate ground loops. SC Amp can accept balanced or single ended audio inputs from the audio interface.

Feature Overview

- Rugged and rack mountable
- Simple to use
- Fixed gain eliminates calibration errors
- Low distortion and low noise floor
- Supports the application of a DC voltage offset
- Integrated impedance measurement

SC Amp™ (cont.)

Setup Diagram



Specifications

Power Amplifier

Guaranteed Minimum Power Output: 35W
 Frequency Response: 20Hz - 100kHz
 Phase Response: +20° to -10°
 Signal to Noise Ratio: > 100dB unweighted*
 Total Harmonic Distortion (THD): < 0.025%
 Intermodulation Distortion (IMD) : < 0.005%
 Input Impedance - Unbalanced: 48kΩ
 Input Impedance - Balanced: 48kΩ
 Minimum Load Impedance: 4Ω
 Voltage Gain: Fixed at 26.4dB
 Cooling: Rear heatsink
 AC Power Input: 85 - 264VAC International

DC Input

Input Connector: Isolated BNC
 Input Impedance: 1MΩ
 DC Gain Factor: Unity
 DC Offset: ±3.5V
 AC Coupling Filter -3dB: 4Hz (3rd Order Bessel)

Load Current Monitor Output

Output Sensitivity: 100mV/A
 Output Impedance: 60Ω, Balanced & Unbalanced
 Output Connector: 1/4" TRS

Physical

Dimensions: 4.375" (W) x 3.5" (H) x 8.25" (D)
 Weight: 1008g / 2.22lb

Optional Accessories

Rackmount shelf with mounting points for ¼ rack width Connect series products. Part # 4901



SC Amp Rear View

NOTE: Specifications are subject to change. Please contact Listen for current information or questions.