

The SP395A Audio Integrator Is a Capable, Versatile and Completely Integrated Audio Analyzer for Fast, Trouble-Free Audio Installations



SoundPro Audio Analyzer for these Applications:

- Sound Reinforcement
- Distributed Sound
- Live Sound
- Industrial Sound
- Home Theater Audio

SP395A SoundPro Features:

- FFT Analyzer
- Real-Time Analyzer
- Sound Level Meter
- LEQ
- Sound Study Graph
- Energy-Time Graph
- Reverb Decay Time (RT₆₀)
- Impedance Meter
- Polarity Tester
- Signal Generator
- Frequency Counter
- Signal Level Meter
- Cable Tester
- Plus many more optional software add-ons (listed on the next page)

Here Is What the SP395A Audio Integrator Delivers:

- Fast and accurate adjustments of speaker coverage and cluster alignment, time delays and speaker frequency response equalization; ensures a high-performance, problem free installation.
- Tests and documents band-specific background noise, room reverberation, and speech intelligibility to identify problem areas and sign-off the system installation.
- Easy to use and interpret user-interface helps you quickly make the test and get the readings you need.
- Portable, battery operated (5 hours run time) and handheld instrument in a ruggedized case means you can make precise audio system measurements wherever you do audio system installations.
- Optional software feature add-ons such as speech intelligibility, time delay analysis and more mean you are never caught short.

Call Today! 1-800-736-2673
or 1-605-339-0100
Fax: 605-339-0317

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Sioux Falls, SD 57107
USA

SP395A Audio Integrator Specifications

<p>SPL Measurements: Displays true RMS SPL Weighting networks: A, C, Flat, octave, or 1/3-octave band filtered Level Range: 25 – 105 dBA with supplied mic; 25 – 146 dbA with precision mic Level Accuracy: ± 0.1 dB at 1 kHz with supplied mic Level Resolution: 0.1 dB</p> <p>Real-Time Analyzer, FFT Analyzer: Plots sound energy levels vs. octave band-filtered spectrum Octave band resolution: RTA to 1/3 octave, FFT to 1/12 octave Level Range: 25 – 105 dBA with supplied mic; 25 – 146 dbA with precision mic Level Accuracy: ± 0.1 dB at 1 kHz with supplied mic Level Resolution: 0.1 dB Frequency range: 20 Hz – 22 kHz Frequency accuracy: ± 0.2 dB 100 Hz to 16 kHz; ± 0.5 dB 20 Hz to 22 kHz</p> <p>Energy-Time Graph (ETG): Graphs impulse sound decay energy vs. time or distance; Identifies arrival time of direct sound and audio reflections Decay time ranges: From 15 mS to 7680 mS Accuracy: Better than $\pm 1\%$ of full scale</p> <p>Reverb Decay Time: Calculates time for residual pink noise test signal to decay 60 dB in room Range: 0 – 15 Sec Accuracy: $\pm 2\%$ of full signal Resolution: 1 mSec. Weighting networks: A, C, Flat, octave, or 1/3-octave band filtered</p> <p>STANDARDS Sound Level Meter: ANSI S1.4-1983 (ASA 47-1983) Leq: ANSI S1.43-1997 Dosimeter: ANSI S1.25-99 (ASA 98-1991) Class 2 Digital Filters: ANSI S1.11-1986 1/1, 1/3 octave digital filters All filters, weighting networks, response rates, and algorithms meet or exceed ANSI Type 1 specifications.</p>	<p>Signal Generator: Signals: Sine, square, Gaussian white noise, pseudo-random pink noise, band-filtered pink noise Frequency Ranges: Sine: 1Hz to 22 kHz; Square: 1 Hz to 6 kHz Noise bandwidth: Full (20 Hz to 20 kHz), octave, or 1/3 octave band filtered Frequency Accuracy: 50 ppm; 0.005% Level Range: -35 dBu to 17 dBu Maximum Sine Output Level: Balanced: +16 dBu; Unbalanced: +10 dBu Level Accuracy: ± 0.1 dBu at 1 kHz; ± 0.2 dBu at 16 Hz to 20 kHz Typical: ± 0.05 dBu at 1 kHz; ± 0.01 dBu at 16 Hz to 20 kHz Sine Distortion: <0.01% THD at full-scale output</p> <p>Level Meter: Stereo level meter reads in dBu, dBv, Vp-p, Vrms, or dBr (reference) Level Range: -120 dBu to +40 dBu, Auto-level ranging Level Accuracy (-85 dBu to +40 dBu): ± 0.2 dB, 10 Hz to 22 kHz Typical: ± 0.01 dB at 100 Hz to 16 kHz; ± 0.05 dB at 10 Hz to 22 kHz Level Resolution: 0.01 dBu</p> <p>Distortion Meter: THD+N: computes Total Harmonic Distortion plus Noise Range: 0.02% to 50% THD+N IMD: computes Inter-Modulation Distortion Inputs: Speaker, microphone, line level Accuracy: $\pm 5\%$ of reading</p> <p>Power Battery: Removable Li-Ion pack provides over 5 hours of service, depending on usage</p>
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SP395A Input/Output Panels



Add Software Options to Your SP395A To Meet Your Audio Test Needs:

- Tech Bench** – Sweeps, Distortion, Phase Meter, Cross Talk Measurement, Audio Oscilloscope
- Noise Curves** – Noise Criterion, Room Criterion, Preferred Noise Criterion, STC/NIC
- Speech Intelligibility** – % ALCONS, RASTI, STI-PA (includes test waveforms)
- TDA** – Time Delay Analysis
- Multi-Band Decay** – Computes 7 octave band filtered RT60 measurements simultaneously
- Audio Stethoscope** – Filters incoming audio through weighting curves
- TerraLink Software** – Real-time PC interface

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