



# Products



## AM51B Audio Analyzer

VC31A6

**The AM51B is designed to measure various audio characteristics with a single unit. This unit includes both a 2 channel audio analyzer and a highly accurate audio oscillator.**

Eleven fundamental measuring functions include Level, Level Ratio, S/N Ratio, Relative Ratio, DC Voltage, Harmonic Distortion, IM Distortion, SINAD, Frequency and Phase Difference. The measuring unit also includes such functions as noise reduction and harmonic analyzer, and is equipped with 10 built-in filters. Together with a low-distortion oscillator with two independent output units, the AM51B can measure distortion down to as low as -120 dB and level to as low as 1  $\mu$ V.

The AM51B is easy to operate through the combination of a liquid-crystal display and soft key setting of parameters. In addition to manual setting, automatic measuring using a memory card and remote control via GP-IB are also possible. A panel setting memory for 100 sets of parameters is also available.

### Features

- Audio characteristics measurement conforms with EIAJ CP-307 CD player measurement standards.
- 2 channel(A,B) oscillator output and measuring input, and balance/unbalance selection.
- Low-distortion, high-level output oscillator with 2 independent level setting capability.
- High-sensitivity level measurement with maximum resolution of 0.1  $\mu$ V. Level ratio measurement convenient for cross-talk and channel balance measurement.
- Automatic measurement of S/N with a built-in Noise Evaluation filter.
- Relative level measurement convenient for frequency response measurement.
- DC voltage measurement with a full scale range of  $\pm 200$  mV to  $\pm 200$  V.
- Distortion measurement using noise reduction and harmonics analysis function.
- IM distortion measurement according to SMPTE method.
- SINAD measurement for the evaluation of portable radio receivers.
- Frequency measurement with 5-digit display.
- Phase difference measurement for  $\pm 180^\circ$  with resolution of 0.1
- Detects effective value, mean value, and peak value response.

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- Panel setting memory for 100 sets of parameters and last memory function.
- Memory card for saving panel setting data and for automatic measurement.
- GP-IB interface is standard.

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