



eightolives

Audio Analyzer

AudioAnalyzer creates audio frequency waveforms and analyzes audio input using your PC's sound card.

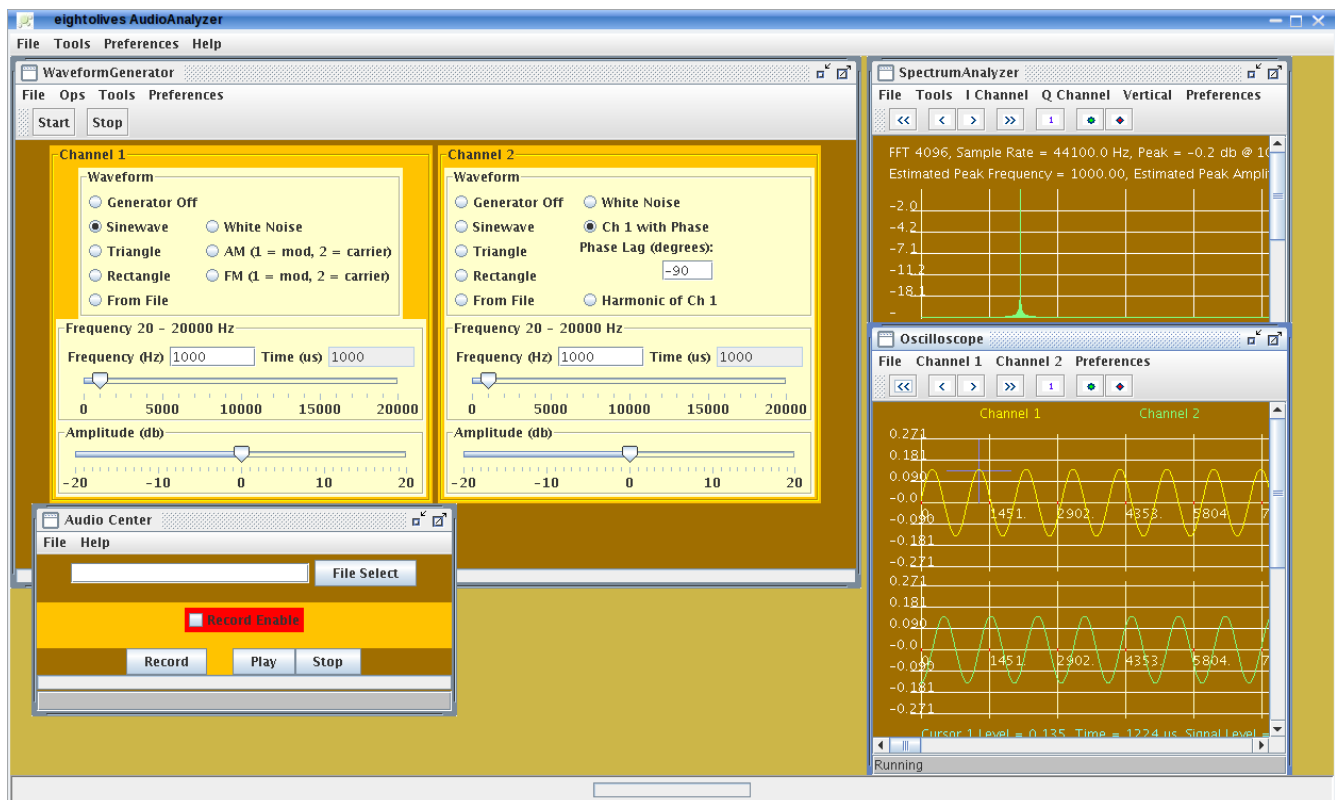
The Java – based tool can execute on any machine that can execute Java and has a sound card.

Use Your PC as Test Equipment

- Audio Waveform Generator, Oscilloscope, Spectrum Analyzer and Recorder

Things you can do

- Generate sine, triangle, rectangle, white noise, DTMF, AM and FM waveforms
- Create phase-shifted waveforms or phase-locked harmonic waveforms
- Generate waveforms from input files
- 2 Channels linked or independent
- Record and playback .wav audio files
- Observe the audio spectrum with waterfall display
- View the audio waveform
- X-Y display mode



Specifications

Operating systems: Runs wherever Oracle Java Runtime Environment (JRE) runs. Requires JRE version 1.6+ Download it from <http://www.java.com>

Uses Oracle's Jvasound API for sound card interface. (standard part of Java download)

Memory Requirements: 128MB min.

Frequency Range: 20 Hz to 20 Khz min (performance may be limited by PC sound system)

Sample Rates of 8000 Hz, 11025 Hz, 16000 Hz, 22050 Hz, 44100 Hz

Data Resolution: 16 bits or 8 bits

Audio files saved as .wav files.

FFT sizes: 256, 512, 1024, 2048, 4096, 8192, 16384, 32768 and 65536

Selectable Window functions – Blackman, Hamming, Hanning or none

Two cursors for differential measurements

Auto-calibrate using the eightolives' Protection / Calibration Unit (EPCU)

Interact or script using ECMA Javascript.

Notes:

Performance may limited by the PC's sound system.

Check the eightolives web site for papers characterizing typical performance and calibration procedures.

Check the eightolives web site for application notes on interfacing to your computer's audio lines.

How to order:

Order on-line at <http://www.eightolives.com>

Available as:

1. On-line download – software only - includes on-line access to Users Manual, sample waveforms and documentation.
2. AudioAnalyzer Kit – includes CD, documentation, interface cable, eightolives Protection / Calibration Unit (EPCU).