Audio Kit iPhone App - Tools for those working in audio and sound

Sydney, Australia. September 15, 2010

Sinusoid Pty Ltd releases version 1.3 of its Audio Kit iPhone App.

Audio Kit is a collection of four applications which are essential for those working in audio and sound. A real time Spectrum Analyser, a Scope to display waveforms, an SPL (sound pressure level) Meter, and a Signal Generator producing sine waves, white noise and pink noise.

- -View a real time spectrum of audio with the Spectrum Analyser and identifying peak frequencies
- -View the actual waveform of the audio signal with the Scope
- -An SPL Meter provides measurement of sound levels using an A-weighting.
- -The Signal Generator provides a sine wave output up to 20,000Hz in 1 Hz steps, along with noise generators for white and pink noise.

Spectrum

FFT (Fast Fourier Transform) is used to calculate the frequencies in the Spectrum Analyser and these are displayed in real time. The frequency is displayed in either logarithmic or linear scale.

Three FFT sizes of 8192, 4096 and 2048 are selectable, giving fine resolution of frequencies.

6 different FFT window function types can be selected - Hamming, Hann, Rectangular, Bartlett, Triangular and Blackman.

The strongest frequency is displayed both above the peak, and optionally, in a large number display in the center of the screen. The large number display can be quickly switched on or off by double tapping the screen.

Scope

The display of the Scope can be adjusted easily using pinch gestures in both horizontal and vertical directions. Zero crossing detection of the waveform provides a smooth display and can be set to either positive or negative direction zero crossing.

There is a screen capture facility in both the Spectrum Analyser and the Scope allowing you to save the spectra and waveforms for future reference.

SPL Meter

The SPL Meter continuously displays the sound pressure level, and has resettable minimum and maximum displays also.

Signal Generator

The output of the Signal Generator can be viewed on the other parts of the App. The Signal Generator has 3 different output types:

- Sine wave
- White noise
- Pink noise

The output of the Signal Generator can be viewed on the other parts of the App.

The sine wave frequency selected using picker wheels allows for accurate control of frequency to within 1Hz. Volume for the sine wave and noise signals is continuously adjustable.

Settings

All of the user preferences in each of the above applications can be made persistent between restarts of the App.

All parts of the App have direct access to a context sensitive help document.

New features for version 1.3

- -Spectrum now has selectable FFT sizes of 8192, 4096 and 2048, giving much better resolution of frequencies.
- -Signal Generator now includes white noise and pink noise signal types, in addition to the existing sine wave signal.

Price: \$3.99 USD (other currencies depending on iTunes App Store) iTunes store category: Music

Contacts

iTunes store website:

http://itunes.apple.com/app/audio-kit/id376965050?mt=8

Sinusoid web site:

http://store.sinusoid.com/software/iphone-apps/audio-kit.html

Screen shots
Spectrum:
http://store.sinusoid.com/images/detailed/spectss.png
Scope:
http://store.sinusoid.com/images/detailed/scopesssineF.png
SPL:
http://store.sinusoid.com/images/detailed/SPLssF.png
Signal Generator:
http://store.sinusoid.com/images/detailed/siggenss.png
Settings Screen:
http://store.sinusoid.com/images/detailed/spsettingsss.png