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DFG

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Digital Function Generator (DFG) software is a powerful tool for

generating arbitrary, stereo 16-bit sounds. Since DFG doesn't use DSP resources, it can run simultaneously with such applications as Digital Oscilloscope and Spectrum Analyzer.

DFG consists of 5 modules. The Principles of Digital Audio module allows synthesis of pure tones and white noise and it can be used to illustrate concepts of signal amplitude, frequency, phase, interference, coherence, incoherence, signal ramping, additive synthesis, beats, virtual pitch, quantization, dithering, aliasing / hard clipping / harmonic / intermodulation distortions, etc. The Modulation panel allows synthesis of Amplitude, Frequency or Amplitude and Frequency Modulated tones. The Additive Synthesis module allows synthesis of complex sounds from their Fourier components. The Sweep Generator module is for producing arbitrary amplitude, frequency or amplitude and frequency sweeps. The Function Generator module can be used to synthesize sine, square, triangular, sawtooth, pulse and white noise signals.

DFG is an ideal signal source for many teaching and research applications in the fields of acoustics, psychoacoustics, physics, audiology, electronics, electroacoustics, audio and vibration. Academic

discounts are available.

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