

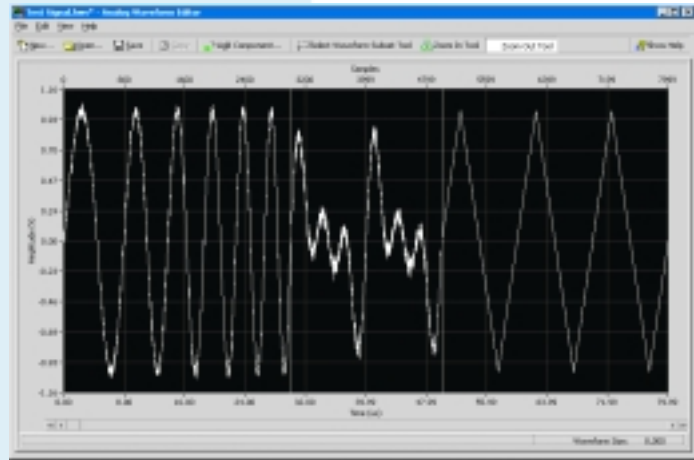
Analog Waveform Editor

NI Analog Waveform Editor

- Create new waveforms using more than 20 built-in waveform primitives or equation/formula entry
- Import existing waveforms in binary, ASCII and LabVIEW Express .lvm formats
- Combine waveform primitives with addition, subtraction, multiplication, or division operators
- Advanced memory management for waveforms up to 1 Gsamples
- Integrates seamlessly with NI arbitrary waveform generators and analog output modules

Operating Systems

- Windows 2000/NT/XP



Overview

The National Instruments Analog Waveform Editor is an interactive software tool for creating and editing analog waveforms. To view or edit existing waveforms, you can open files saved in binary, ASCII, or the LabVIEW Express .lvm file format or you can create a new waveform. Because the NI Analog Waveform Editor uses intelligent hard disk caching, it easily handles large waveforms commonly used in communications test.

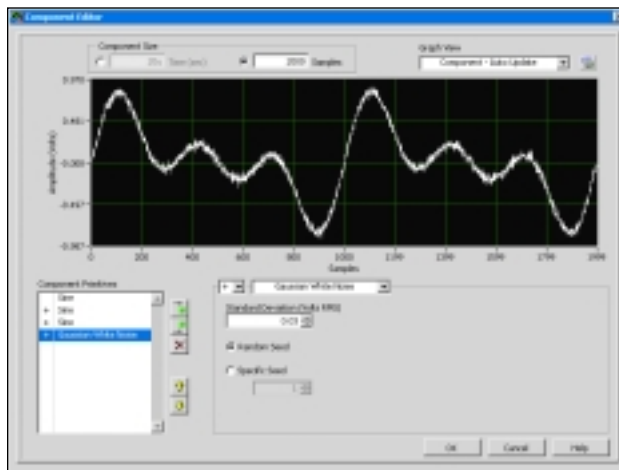


Figure 1. Complex waveform components can be created by adding several primitives together in the Component Editor window.

Create and Edit Waveforms Interactively

To create new waveforms, you select from a library of waveform primitives (Table 1) or enter a mathematical expression. Waveform primitives can be combined using addition, subtraction, multiplication, and division operators to create more sophisticated waveforms.

For example, a noisy multitone signal can be generated by adding several sine wave primitives with a Gaussian noise primitive (Figure 1). The familiar copy and paste functions are also available to help manipulate waveform data.

Waveform Primitives

Sine	Periodic random noise	Trapezoid
Square	Gaussian noise	Stairstep
Triangle	Lorentzian pulse	Haversine
Sawtooth	Gaussian pulse	Impulse
Uniform noise	Exponential rise/decay	Chirp

Table 1. A partial list of the configurable waveform primitives available in the Analog Waveform Editor.

Import Waveforms into Application Software

When you have finished creating your waveform, you can save it to disk and then read it from a program written in your application development environment, such as LabVIEW, LabWindows/CVI, and Microsoft Visual Studio.

Ordering Information

NI Analog Waveform Editor778848-01

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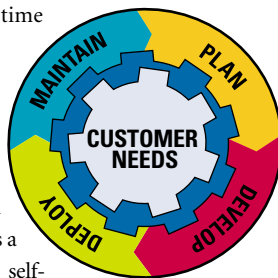
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