
SIGVIEW (April-2022)

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Real-time signal analysis and control FFT and Discrete Fourier Transform (DFT) Real-time display and control of signal parameters Import and export of data files in multiple formats Import and export of data files in ASCII format Import and export of data files in various binary formats Sine wave generator Bandstop filter and bandpass filter Real-time arithmetic operations on signals Various statistics functions Dual channel analysis (cross spectrum, cross correlation, and coherence) Signal filtering Graphical block diagram Custom tools and workspaces can be created and later reused or exchanged with other Sigview users No artificial or license-based limitations: million points FFTs can easily be calculated, dozens of signals can be combined and analyzed at the same time. SIGVIEW Features: Real time signal analysis and control FFT and Discrete Fourier Transform (DFT) Real-time display and control of signal parameters Import and export of data files in multiple formats Import and export of data files in various binary formats Sine wave generator Bandstop filter and bandpass filter Real-time arithmetic operations on signals Various statistics functions Dual channel analysis (cross spectrum, cross correlation, and coherence) Signal filtering Graphical block diagram Custom tools and workspaces can be created and later reused or exchanged with other Sigview users No artificial or license-based limitations: million points FFTs can easily be calculated, dozens of signals can be combined and analyzed at the same time. Dual channel analysis (cross spectrum, cross correlation, and coherence) Simulated analog instruments (PCL) Fast Fourier Transform (FFT) Cross spectrum, cross correlation and coherence Spectrum and waveform display Spectrum and waveform display Dual channel analysis (cross spectrum, cross correlation, and coherence) Fast Fourier Transform (FFT) Cross spectrum,

SIGVIEW [Win/Mac]

Simple and safe macro programming. It provides the macros you need for most of the work. Easy to work with and to debug. You can create, modify, test and execute macros without having to leave the Sigview program window. Unrestricted macro definitions: you can use almost any function with any parameter from any module. No artificial or license-based limitations: you can use any macro of any module without restriction. It is not necessary to create a complete macro library in the beginning. You can use as many functions as you need. The macros are context-sensitive: they will perform the operation with the selected signal, function and parameter set in the current mode. You can use any function, including the internal Sigview functions, from any module. Use the help function to get detailed information about the Sigview function libraries. Your macros will be saved in the Sigview macros folder, together with the macros of all other users. The macros folder is easily accessed from the Macros menu. It is possible to record macros for later debugging or further use. Limitations: The internal Sigview function macros cannot be used. The macros are saved in a Sigview macro file. You have to manually copy all macros to the macros folder when you start the Sigview program. The macros folder cannot be changed. A macro can be activated or deactivated, but it cannot be deleted or re-defined. You cannot use macros that have been created for another mode. You have to create a new macro for this mode. You cannot create macros that contain mathematical operations. All macros are context-sensitive: they will perform the operation with the selected signal, function and parameter set in the current mode. Macro commands may be used only once or several times in a macro. If you want to use macro functions with other Sigview functions or macros, you have to convert the macro to a Sigview function first. There is a possibility that the macro functions are not completely tested, so there may be some unexpected side effects, which may be erased or set up again by the Sigview command setmacro. The 80eaf3aba8

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Real time signal acquisition, analysis and control. SIGVIEW is a fast and easy to use spectrum analyzer and multifunction oscilloscope that can handle several input signals at the same time and calculate a vast amount of statistical information. SIGVIEW supports real time signal acquisition from most of today's A/D converters, including DAQs from National Instruments, Measurement Computing, or Aperto. Any of the supported DAQs can be controlled via a wide range of triggers, decimation and averaging options. Data can be sent to the oscilloscope directly as files in WAV, MP3, AIFF, SND and 8/16/32-bit binary format. In addition SIGVIEW offers an embedded real time data display with a graphical signal plot and signal processing functions. WAV and MP3 files can be imported into the oscilloscope or sound card. A variety of data formats can be exported to files including ASCII and EDF. SIGVIEW is a complete multifunction oscilloscope and spectrum analyzer, and can be used in a variety of ways:

- (i) The standard oscilloscope (scope) function provides a graphical signal plot for the analog input signals. Also the PSD and real-time FFT can be calculated and analyzed on the fly.
- (ii) The multifunction oscilloscope provides a waveform (audio or digital) for the analog input signals.
- (iii) The spectrum analyzer can calculate the PSD and FFT on the fly and display it graphically. SIGVIEW includes a wide range of signal analysis tools and statistical functions for the calculation and display of important parameters. The spectrum analyzer also allows you to calculate several spectral parameters at the same time.
- (iv) The spectrum analyzer also provides a real time waveform with the embedded spectrum plot for the analog input signals.
- (v) The multifunction oscilloscope offers a wide range of functions in the block diagram environment.

SIGVIEW Features: * Real time acquisition and control of several input signals simultaneously, including DAQs from National Instruments, Measurement Computing or Aperto * Support for waveforms (MP3, WAV) and spectrograms (stereo and cross-spectral) * Supports up to 32 signals simultaneously * With many options for DAQ control: trigger, decimation and averaging * Supports live acquisition and live display of the analyzed parameters * DSP-optimized algorithm for calculation of the PSD and FFT

What's New in the?

SIGVIEW is a real time signal analysis application with the complete range of spectral analysis tools, statistical functions and comprehensive graphical solutions for 2D and 3D graphics. SIGVIEW will allow you to combine all the analysis tools that are included and concentrate on analysis logic instead on program usage. With its unique user interface and philosophy, SIGVIEW gives you absolute freedom to combine different signal analysis methods in any possible way - there are no artificial rules and limitations. Once you get the basics, everything else in SIGVIEW follows the same logical pattern. Here are some key features of "SIGVIEW":

- ☑ Data acquisition and monitoring from sound cards and professional multichannel A/D devices. NEW in v1.97: Support for NIDAQ and NIDAQmx compatible DAQ devices from National Instruments and all Measurement Computing DAQ devices. Various options for triggering, decimation and averaging are included.
- ☑ Real time data display, signal analysis and control. You can work on live signals and observe results immediately.
- ☑ Import and export of signal files in numerous formats: WAV, MP3, ASCII, WMA, AU, AIFF, SND, 8/16/32-bit binary files, EDF...
- ☑ Optimized FFT algorithm with fine parameter tuning and various pre- and postprocessing options: windowing, zero-padding, power spectrum and PSD, automatic averaging, test for spectral peaks integrity...
- ☑ Spectrogram and Time-FFT functions with powerful graphical display solutions
- ☑ Dual channel (cross-spectral) analysis (cross spectrum, coherence, cross correlation,...)
- ☑ Signal filtering (Bandstop, Bandpass, Lowpass, Highpass)
- ☑ Real time arithmetic operations on signals (subtract, multiply, add, scale, normalize...)
- ☑ Various statistics functions: peak hold, averaging, smoothing, removing linear trend, probability distribution...
- ☑ Analog-style instruments for real-time display of important signal parameters
- ☑ Advanced signal display and handling options: unlimited overlays, unlimited number of markers and annotations for each signal, parallel display (EEG style), cut/copy/paste signal parts, unlimited zoom-in levels, VCR-style commands for audio playing...
- ☑ Signal generator including sine signal, white and pink noise, step signal...
- ☑ Graphical block diagram environment improves productivity when working with complex analysis systems

Custom tools and workspaces can be created and later reused or exchanged with other Sigview users

☑ No artificial or license-based limitations: million points FFTs can easily be calculated, dozens of signals can be combined and analyzed at the same time

System Requirements For SIGVIEW:

Windows 7 or higher, DirectX 9.0c compatible video card or compatible non-graphical card. Mac or Linux: Minimum OS requirements are OS X 10.7 or Ubuntu 12.04 64-bit, although any recent Linux distribution should work. Minimum RAM: 1 GB Minimum VRAM: 512 MB Minimum Disk Space: 250 MB Minimum Tx Anti-Aliasing: 128x Minimum Tx Support Resolution: 1024x768 Minimum Tx MSA: 16x Minimum Tx Async Compression

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