

EASERA
SYSTUNE

SYSTEM TUNING & LIVE SOUND MEASUREMENTS



New From **AFMG**, The Developers of **EASE** & **EASERA**

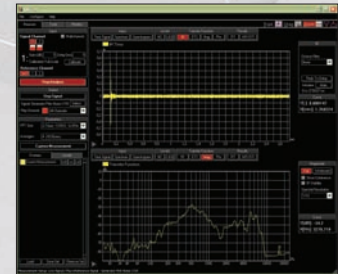
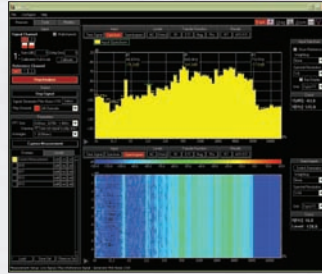
LIVE SOUND MEASUREMENTS IN REAL TIME

SysTune represents a remarkable if not incredible - step forward in its ability to take accurate acoustical measurements in real time even when an audience is present.

- No more rushing to complete your final tuning before the crowd arrives - and then hoping you correctly accounted for the crowd's effect on performance
- No more having to take acoustical measurements in an empty room or stadium and then factor in the difference an audience will make
- No more having to guess at delay settings and suffer with erratic measurement results
- No more running around in a venue with a single microphone or hand held RTA and then trying to equalize the system blindly

SysTune acquires Impulse Response data using live program material and simultaneously displays time-domain and frequency-domain measures in real time - and automatically produces accurate, repeatable measurements every time!

SysTune also has the ability to process up to 8 input channels simultaneously and generate spatially averaged spectrum and transfer function displays (multi-channel-FFT).



Designed for real-time live-sound applications, SysTune is a sophisticated yet exceedingly easy to use measurement system with novel, patent pending features that are especially useful for system tuning and live sound measurements.

SysTune uses newly developed noise suppression and signal gating algorithms to acquire a room impulse response of five to ten seconds using live program material as the test stimulus. SysTune then processes and updates this data in real time and at high refresh rates.

SysTune's capabilities include:

- 8-channel, 8 kHz to 192 kHz sampling rates
- Real-Time data acquisition & display in both time and frequency domains at high refresh rates using live sound, pink noise, sweeps or other stimulus signals
- Real-Time Deconvolution (RTD) for analysis of impulse response and complete frequency response based on a signal channel and a reference channel (Dual-Channel FFT)
- Real-Time Impulse Response, Magnitude and Phase displays
- Newly developed time-frequency-constant (TFC) window to investigate early energy arrivals in detail
- Precise real-time spectrogram display for feedback analysis
- Input spectrum and frequency response of up to 8-channels can be averaged (multi-channel-FFT)
- Measured data (Impulse Response) results can easily be exported to EASERA and EASERA Pro for additional post processing and in depth analysis
- Live RT and STI calculations instantly
- SPL, LEQ and NC measurements; Level histograms
- Coherence and IR stability displays allow quick and easy time alignment of loudspeakers using real-time impulse response data
- Cursors and overlays for easier comparison of captured curves
- Integrated signal generator for log-sweep and pink noise stimuli of standard FFT time lengths
- Windows Direct Sound, Wave/MME, ASIO audio drivers; interface to EASERA Gateway; Multi-threaded, full support for multi-processor computers

EQUIPMENT REQUIREMENTS

EASERA SysTune is compatible with Windows 2000, Windows XP, and Windows Vista operating systems on PC's with a minimum graphics resolution of 1024 x 768; 1100 x 850 resolution is preferred. Windows 95, 98, NT and ME (Millennium) are not supported.

CPU should be at least 1 GHz with support for the Intel SSE instruction set, working memory (RAM) should be at least 256 Mb and at least 1 Gb or more of free hard disk space should be available.

A soundcard is required. EASERA SysTune supports all common soundcards with up to 8 input channels, bit-resolutions up to 32-bit and sampling rates of up to 192 kHz. Windows, DirectSound, Wave and ASIO drivers are supported. If more than two input channels will be used, ASIO drivers are required. For one or two input channels, Direct Sound (MSDirectX) can be used as well as Wave/MME drivers (MS Windows Audio-API).

For precision measurements an EASERA GATEWAY high performance AD/DA converter/preamp is recommended.

