



SoundCheck® Packages & Modules

Package Options

SoundCheck's modular nature allows customization for the perfect balance of capabilities and price. Typically, one of the following base packages is selected and additional modules added as needed. Modules may be added at any time after purchase, ensuring that if your test requirements change, your system can adapt.

Soundcheck Basic

Created with cost-sensitive production customers in mind, SoundCheck Basic performs simple sine-based measurements such as frequency response, sensitivity, and harmonic distortion. It does not include the sequence editor, so an additional system with a higher package is required to generate test sequences, or the sequence editor module should be added.

SoundCheck Plus

SoundCheck Plus is the most common starting point for customers measuring simple transducers. In addition to the SoundCheck Basic modules the Plus package includes the Sequence Editor and the Signal Generator, Multimeter, and Scope-FFT virtual instrument modules.

SoundCheck Advanced

SoundCheck Advanced is a powerful tool for R&D testing with additional modules including the Real Time Analyzer virtual instrument, Time Selective Response (for performing simulated free field measurements), Polar Plot, and the Equation Editor, as well as everything in the Plus package. Customers wanting to measure Thiele-Small parameters should select this package.

SoundCheck Complete

SoundCheck Complete offers the most comprehensive set of audio testing tools available. It includes nearly all the available modules for SoundCheck incorporating everything from the Advanced package plus additional analyses such as IM Distortion, Multi-tone, Transfer Functions, and Perceptual Rub & Buzz. It also includes the powerful post processing options Zwicker Loudness and the Waveform Filter.

SoundCheck ONE

SoundCheck ONE is a simple, low-cost version of the SoundCheck software, designed for production testing of loudspeakers, microphones, and headphones. Designed to work seamlessly with the AmpConnect hardware, SoundCheck ONE is quick to setup and easy to use. Tests are created from a series of basic templates, within which settings such as stimulus range and level, limits, and display preferences are customized. These custom sequences can then be saved for each product tested.



System Comparison

Part #	Module Description	System Name and Part #			
		Basic	Plus	Advanced	Complete
		1000	1102	1103	1111
2000	Limits Editor	✓	✓	✓	✓
2001	Harmonic Distortion (THD, THD+N, Rub & Buzz, and Total)	✓	✓	✓	✓
2002	Sequence Editor		✓	✓	✓
2003	FFT Spectrum Analyzer and Oscilloscope		✓	✓	✓
2004	Post-Processing basic	✓	✓	✓	✓
2005	Real-time Analyzer (1/1, 1/3, 1/6, 1/12, & 1/24 octave)			✓	✓
2006	Time Selective Response For Simulated Free-field Measurement and Analysis			✓	✓
2007	IEEE/ITU loudness ratings and sample Send/Receive sequences				
2008	Attack and Release				
2009	Statistics	✓	✓	✓	✓
2010	Save to Database				
2011	Polar Plotting			✓	✓
2012	Equation Editor including Thiele-Small parameter (req. 2004)			✓	✓
2013	WAV File Equalization				✓
2014	Signal Generator		✓	✓	✓
2015	Multimeter		✓	✓	✓
2016	Loose Particle	✓	✓	✓	✓
2017	Stimulus Editor basic, includes Pink and White noise, WAV files	✓	✓	✓	✓
2018	Stepped Sine & Amplitude Sweep Stimulus	✓	✓	✓	✓
2019	Intermodulation (IM) & Difference Frequency (DF) distortion, including 2-tone stimulus (req. 2001, 2017,2018)				✓
2020	Multi-Tone Excitation				✓
2021	Transfer Functions				✓
2022	Two Channel Acquisition	✓	✓	✓	✓
2023	4-Channel Acquisition				
2024	8-Channel Acquisition				
2025	16-Channel Acquisition				
2026	32-Channel Acquisition				
2027	64-Channel Acquisition				
2030	Perceptual Rub & Buzz (req. 2001)	✓	✓	✓	✓
2031	Zwicker Loudness Rating (req. 2004)				✓
2032	Waveform Filter (req. 2004)				
2033	Active Speech Level (req. 2004)				
2036	Distortion Analyzer				
2037	Frequency Counter				
2040	Strip Chart Recorder				



Part #	Module Description	System Name and Part #			
		Basic	Plus	Advanced	Complete
		1000	1102	1103	1111
1300	SoundMap Time Frequency Analysis (CSD, Short Time Fourier, Wigner-Ville, Wavelet)				
1301	SoundMap CSD				
2099	SoundCheck runtime engine	✓	✓	✓	✓
2100	SoundCheck runtime engine for Mac (specify Mac version at time of order to receive 2100 instead of 2099)				

SoundCheck® Sequences

Part Number	Description	Software Modules Required	Hardware Required
3000	Hearing Aid Application for ANSI S3.22 and IEC 60318-7, and some 'Annex C' items from 2003 ANSI std	software package 1102 plus module 2008	DC Connect
3102	Max SPL for headphones standard EN50332-1 and EN50332-2	software package 1102 plus modules 2005 and 2023	
3104	TIA-470C-2004 using P-50 speech based methods. Requires SC version 7	software package 1102, plus modules 2005, 2007, 2013	
3111	TIA-920-B is a dual-bandwidth standard that applies to both narrowband (NB) and wideband (WB) devices. It also allows a choice between Free Field (FF) and Diffuse Field (DF) as the Listener Reference Point (LRP). Both FF and DF are allowed in TIA-920.110-B	software package 1102, plus modules 2005, 2007, 2013	
3103	IEEE 1329-1999 Voice switching measurements Clause 10 of Std Method for Measuring Transmission. Requires SC 7	software package 1102, plus modules 2005, 2007, 2013	
3105	IEEE 269-2002 Clause 9. Test procedures for analog four-wire and digital handsets & headsets	software package 1102, plus modules 2005, 2007, 2013	
3106	Hearing Aid Compatibility (HAC) Sequence. FCC Part 68.316 and TIA-1083. Requires SC 8.1 or higher	software package 1102	
3121	Background Noise. Calibrates a 4.1 speaker array to conform with the ETSI ES 202 396-1 Standard	software package 1102, plus modules 2005, 2013, 2023	