

ELECTROACOUSTIC QUALITY CONTROL

SoundCheck™ Electroacoustic Test Software is a flexible tool for Quality Control, Quality Assurance and R&D testing of electroacoustic devices such as loudspeakers, microphones, hearing aids and telephones.











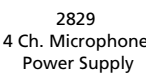





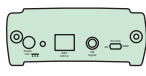







The application is designed to fulfill the needs of a fully integrated workflow tool enabling test and data compatibility throughout the entire product cycle from product inception through end-of-line testing.

SoundCheck™ provides the tools for all phases of testing, from comprehensive tests performed in the laboratory, through tolerance development based on statistical analysis, to rapid testing on the production line.

Performance is optimised in all phases due to SoundCheck™'s scalable structure that enables you to select only the functionality required. But if your requirements change, or your product focus changes, software upgrades are available for extended functionality.

With continuing development, scalability, ease of use, and network integration, your investment is always protected with SoundCheck™.



 4191 Free-field 1/2-inch Microphone	 2669L Falcon Range® 1/2-inch Microphone Preamplifier	 4152 Artificial Ear	 4157 Ear Simulator	 4416B Battery Powered ISOTRON® Conditioner	 2716C Power Amplifier
 4939 Free-field 1/4-inch Microphone	 2670 Falcon Range® 1/2-inch Microphone Preamplifier	 4153 Artificial Ear	 4946 2cc Click-on Coupler	 2829 4 Ch. Microphone Power Supply	 4232 Anechoic Test Box
 4192 Pressure-field 1/2-inch Microphone	 2671 1/2-inch DeltaTron® Preamplifier	 4930 Artificial Mastoid	 4195Q Wideband Ear Simulator for QC	 2690/2693 NEXUS™ Conditioning Amplifier	 WQ 2345 Hand-held Barcode Reader
 4947 Prepolarized Pressure-field 1/2-inch Microphone	 2695 1/2-inch DeltaTron® Preamplifier	 4227 Mouth Simulator	 4228 Pistonphone	 4231 Sound Level Calibrator	
 4144 Pressure-field 1-inch Microphone					

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GENERAL ELECTROACOUSTIC

- BZ 5320-001 SoundCheck™ Basic Module
- BZ 5320-007 Voltmeter Module
- BZ 5320-006 Signal Generator Module
- BZ 5320-010 Stimulus Editor Module (Amplitude Sweep, Stweep, WAV)
- BZ 5320-003 Limit Tester Module
- BZ 5320-004 Sequence Editor Module

EXTENDED ELECTROACOUSTIC

- BZ 5320-002 HarmonicTrak Module for Distortion (THD, Rub & Buzz) and Loose Parts Detection
- BZ 5320-008 FFT Spectrum Analyzer and Oscilloscope Module
- BZ 5320-009 Real-time Analyzer Module

(1/1-, 1/3-, 1/6-, 1/12-, & 1/24-octave)

- BZ 5320-005 Post-processing Module
- BZ 5320-014 Equation Editor Module*
- BZ 5320-015 Database Module (SQL, Access, or Oracle formats)
- BZ 5320-016 Wave File Equalizer Module (for noisebased testing)

LOUDSPEAKER MEASUREMENTS

- BZ 5320-011 Simulated Free-field Measurement and Analysis Module (Log TSR)
- BZ 5320-012 Polar Plotting Module (incl. sequence to operate Turntable Type 9640 via GPIB)

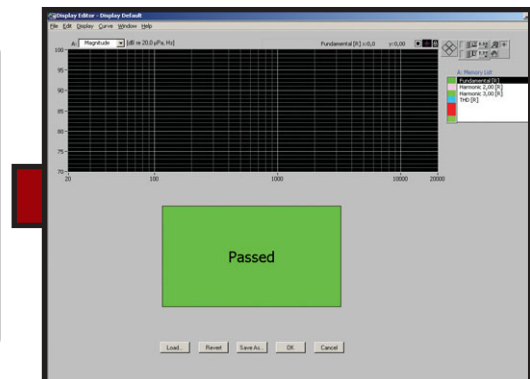
BZ 5320 C

SoundCheck™ Basic Electroacoustic Test Software

- BZ 5320-001 • Basic quality assurance and quality control of electroacoustic devices
- BZ 5320-006 • Frequency and phase response
- BZ 5320-007 • FFT Spectrum (amplitude only)
- BZ 5320-010 • User-defined excitation signals; Stepped Sine, Amplitude Sweep and WAV
- ZE 077 B-001 • One button calibration



Custom-defined displays with graphs and selectable pass/fail indications are designed in the Display Editor



BZ 5320 B

SoundCheck™ Electroacoustic Test Software for Production Test

- BZ 5320 C • Advanced quality assurance and quality control of electroacoustic devices
- BZ 5320-002
- BZ 5320-003



Apply pass/fail tolerances based on the DUT's response or pre-defined production limits for both amplitude, frequency and phase in the Limits Editor



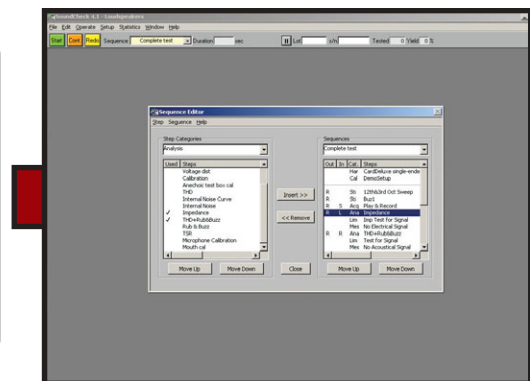
BZ 5320 A

SoundCheck™ Advanced Electroacoustic Test Software for Test Development

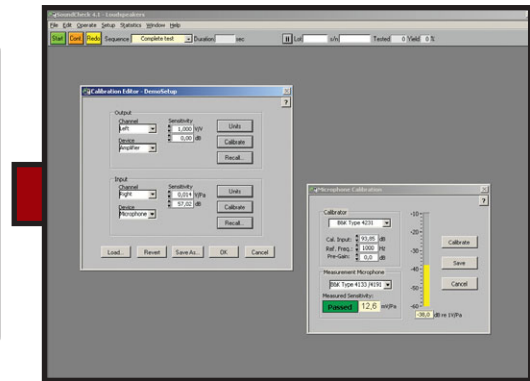
- BZ 5320 B • Test sequence development and verification of electroacoustic devices
- BZ 5320-004 • Intuitive sequence design
- BZ 5320-005 • Sub-sequencing
- BZ 5320-009 • Diagnostic tools include FFT analyzer and extensive post-processing
- Flexible data management



Design the complete test execution with pre- or user-defined steps and messages to the operator and any connected equipment



In- and output devices are easily full-chain calibrated/equalized in the Calibration Editor



HEARING AID MEASUREMENTS
BZ 5320-013 Attack and Release Time Module* (incl. sample test sequences based on ANSI S3.22-1996, IEC 118-7, and JIS C 5512 standards)

TELEPHONE MEASUREMENTS
BZ 5320-014 Loudness Ratings Module* (IEEE/ITU) (incl. sample test sequences based on TIA 470C)

HARDWARE OPTIONS
MEASUREMENTS UP TO 48 KHz

ZE 0770B-001 Verified Data Acquisition Board (PCI Sound Card, 96 kHz SR / 24 bit, 2in/2out)

MEASUREMENTS UP TO 100 KHz
ZE 0770B-003 Verified Data Acquisition Board (PCI Sound Card, 215 kHz SR / 24 bit, 4in/4out)

MEASUREMENTS UP TO 24 KHz (FOR LAPTOP COMPUTERS)
ZE 0770B-005 Verified Data Acquisition Board (PCMCIA Sound Card, 48 kHz SR / 24 bit, 2in/2out)

* Requires Post-processing Module BZ 5320-005