



BAS

Acoustic Ear | Bio Acoustic Simulator



OH-Partners



BAS Electro Acoustic Ear Simulator

The BAS electro acoustic ear simulator provides a reliable and objective solution for daily validation of audiometers. Designed to support routine daily quality checks, it helps ensure confidence in audiometer performance without the variability associated with human test subjects.

Objective Daily Verification

The BAS is intended for routine performance checks of pure tone air conduction output, supporting compliance with Clause 12 of ISO 8253 1 2010. Acting as a substitute for a human subject, it removes inconsistency and delivers repeatable, objective results.

Consistent Reference Audiogram

When connected to a manual or automatic audiometer, the BAS produces a stable reference audiogram, allowing clear comparison and confirmation of correct audiometer function as part of daily checks.

Broad Compatibility

The BAS electro acoustic ear simulator is compatible with all DD45 and DD65 type audiometers that use a jack connected response switch from all manufacturers . When used with Resonance audiometers, additional functionality is available.

BAS TYPICAL RESPONSE (in auto mode with 5dBHL step)

.25 kHz	.5 kHz	1 kHz	2 kHz	3 kHz	4 kHz	6 kHz	8 kHz
75 dB	80 dB	80 dB	80 dB	80 dB	80 dB	80 dB	70 dB





BAS Bio Acoustic Simulator technical specifications

PERFORMANCE	
Audiometric frequencies	125 Hz to 8 kHz
Frequency detection range	+/- 5% of nominal value
Calibration	80 dBHL +/- 1 dB at 1 kHz continuous tone with DD45 earphones
Intensity to trigger a response	80 dBHL
Response signal duration	1 second (minimum)
Accuracy	Repeatable to within 2 dB when using an audiometer with a variable HL control. When using automatic audiometers, BAS will be repeatable within the HL step increments selected on the audiometer (usually 5 dB)
Indicators	No.3 led's (red = RIGHT; blue = LEFT; green = POWER applied to the unit)
Power	5 V DC via USB port Type B located on the front panel
Construction	Metal white painted
Degree of protection against water	Not protected
Dimensions	12 (w) x 11,5 (d) x 10 (h) cm - 4.7 (w) x 4.5 (d) x 3.9 (h) inches
Operating temperature range	+15 C° to +40 C°
Storage and Transportation temperature range	- 20 C° to +70 C°
Storage and Transportation humidity range	10% to 90% (non condensing)
Storage and Transportation pressure range	500 hPa to 1060 hPa
Mode of operation	Continuous operation
Equipment mobility	Portable
BAS meets the requirements of the following standards	EN 61000-6-1 EN 61000-6-3

STANDARD COMPONENTS		
Description	Quantity	Part number
Resonance BAS	1	4300103600
Wall mounting bracket	1	066001016
Patient response interconnecting leads	1	056015024 (Stand alone audiometers) 056015025 (Portable audiometers) 056015026 (r07a screening audiometer)
BAS Operating Manual	1	110000293BA
USB power cable 2.0 Type A- Type B	1	056001060



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