avio 1

BASIC CLASS
HEARING SYSTEM

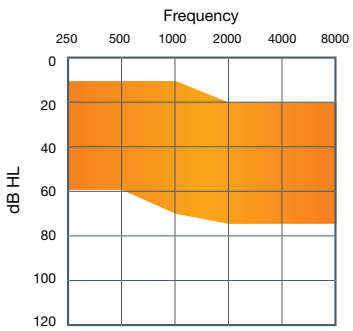
ITC
Technical Datasheet

Models: A130 • A130 HPG
A130-D • A130-D HPG

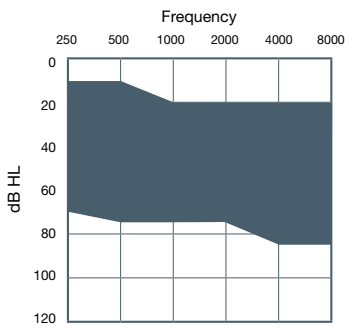
Thanks to a modern feature set, the new digital programmable AVIO1 is designed to satisfy many customers of today. Equipped with a set of useful basic functions, such as Feedback management, Background noise reduction etc., AVIO1 provides digital hearing at an attractive price.

Fitting ranges

A130 • A130-D



A130 HPG • A130-D HPG



Features/Options

- Logarithmic 6 Channel WDRC
- 6 Gain Handles in Fitting Software
- Background Noise Reduction
- Microphone Noise Reduction
- Adaptive Feedback Cancellation
- Push Button with up to 3 Programs
- Telecoil with M-T Balance (optional)
- Fixed Directionality/ 2 microphones (optional)
- Digital Volume Control (optional)
- Stand-by Mode
- Audible Signal Tones
- Earwax Management System
- Standard and Power Configurations
- On/Off switch via the battery door
- Left/right side indicators

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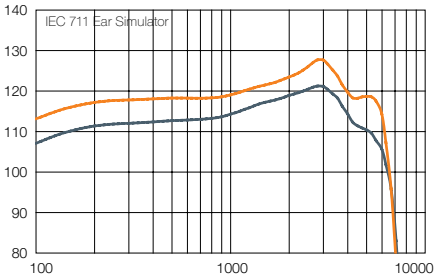
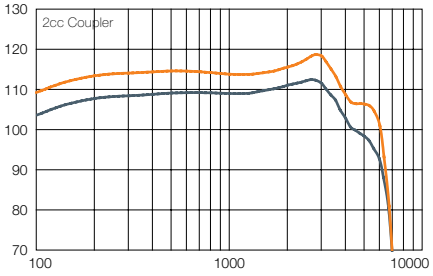
Electroacoustic Performance ITE avio 1	A130 + A130-D			A130 HPG + A130-D HPG			
	IEC 118-0 Ear Simulator	IEC 118-7 2cc Coupler	ANSI S3.22	IEC 118-0 Ear Simulator	IEC 118-7 2cc Coupler	ANSI S3.22	
Maximum Output (OSPL 90)	121	112	112	128	119	119	dB SPL
Average Output (O.E.S.: DIN, 2cc: HFA, Pi=90 dB SPL)	115	110	110	120	115	115	dB SPL
Maximum Gain (Pi=50 dB SPL)	52	43	43	58	50	50	dB
Average Gain (O.E.S.: DIN, 2cc: HFA, Pi=50 dB SPL)	44	39	39	49	44	44	dB
Frequency range (O.E.S.: DIN, 2cc: IEC 60118-7)	100 - 6440	100 - 6310	100 - 6310	100 - 6580	100 - 6460	100 - 6460	Hz
Equivalent input noise	26	25	25	26	26	26	dB SPL
Total Harmonic distortion at 500 Hz at 800 Hz at 1600 Hz	 1,8 2,0 2,2	 1,1 1,1 1,3	 1,1 1,1 1,3	 2,1 1,7 2,0	 1,0 0,8 1,3	 1,0 0,8 1,3	 % % %
Maximum telecoil sensitivity (10 mA/m)	103	-	-	110	-	-	dB SPL
HFA-SPLITS @ 31.6 mA/m (ANSI)	-	90	90	-	98	98	dB SPL
Current Drain (O.E.S.: RTG, Pi=60 dB SPL, 1600 Hz, 2cc: RTG, Pi=65 dB SPL, 1 kHz)	0,92	1,0	1,0	0,95	1,0	1,0	mA
Battery Size	312	312	312	312	312	312	
Battery Life (Average)	174	168	168	168	160	160	hours
Reference Test Gain (O.E.S.: 1600 Hz, 2cc: HFA, Pi=60 dB SPL)	34	31	31	39	38	38	dB

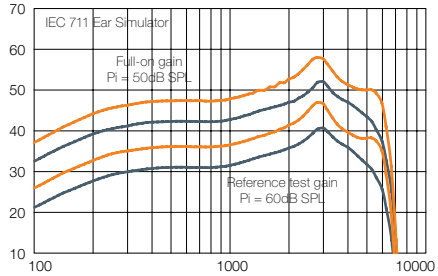
Maximum Output (OSPL 90)



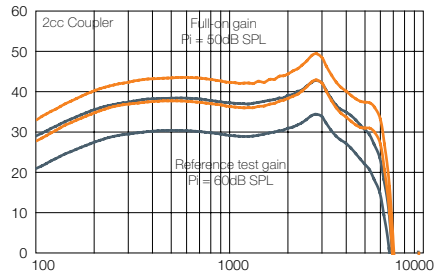
Maximum Output (OSPL 90)



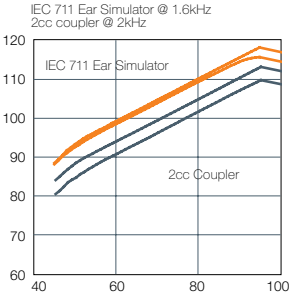
Full-On and Reference Test Gain



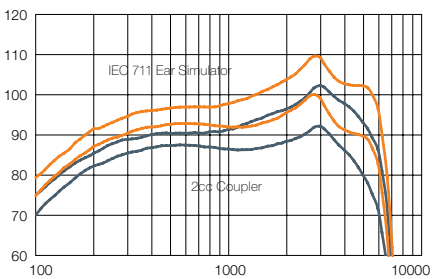
Full-On and Reference Test Gain



Input/Output Response



Telecoil



Notes:
O.E.S. = Occluded Ear Simulator
2cc = 2 cm³ coupler
Pi = Acoustic input signal

Basic settings:
Full-on Gain, Reference Test Gain
MPO = Maximum Power Output
Maximum Band Width

Measured according IEC 118-0 1983, amendment 1994; at 1.3 V and 23°C on O.E.S. according to IEC711 1981, resp on 2cc according to IEC60118-7 2nd edition 2005 (DIN average calculated at 500 Hz, 1000 Hz and 2000 Hz; HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dBSPL sound pressure equals 20µPa). All measurements without DSP features activated unless indicated otherwise.

Standard HPG

16957500-GB-08.12-Rev.A

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