

ITE

Technical Datasheet



Models: A140 • A140 HPG • A140-D • A140-D HPG
A150 • A150 HPG • A150-D • A150-D HPG

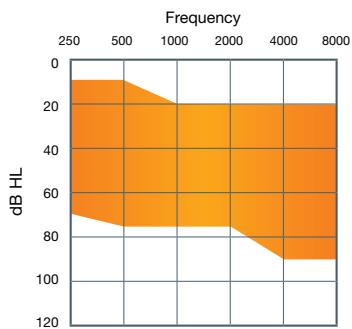
Thanks to a modern feature set, the new digital programmable AVIO1 is designed to satisfy many customers of today. Equipped with a set of useful basic functions, such as Feedback management, Background noise reduction etc., AVIO1 provides digital hearing at an attractive price.

Features/Options

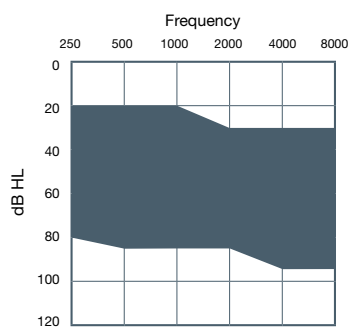
- Logarithmic 6 Channel WDRC
- 6 Gain Handles in Fitting Software
- Background Noise Reduction
- Microphone Noise Reduction
- Adaptive Feedback Cancellation
- Push Button with up to 3 Programs
- Telecoil with M-T Balance
- Fixed Directionality/ 2 microphones (optional)
- Digital Volume Control (optional)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

Fitting ranges

A140 • A150 •
A140-D • A150-D

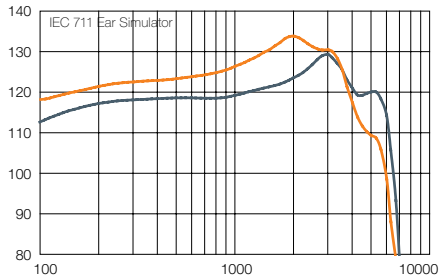


A140 HPG • A150 HPG •
A140-D HPG • A150-D HPG

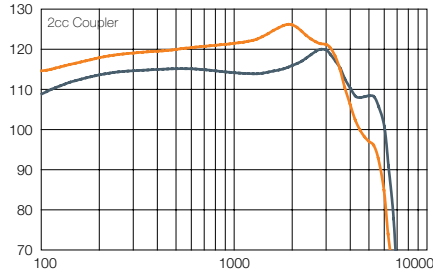


Electroacoustic Performance ITE	A140, A140-D, A150, A150-D			A140 HPG, A140-D HPG, A150 HPG, A150-D HPG			
	IEC 118-0 Ear Simulator	IEC 118-7 2cc Coupler	ANSI S3.22	IEC 118-0 Ear Simulator	IEC 118-7 2cc Coupler	ANSI S3.22	
Maximum Output (OSPL 90)	129	120	120	134	126	126	dB SPL
Average Output (O.E.S.: DIN, 2cc: HFA, Pi=90 dB SPL)	120	116	116	128	123	123	dB SPL
Maximum Gain (Pi=50 dB SPL)	61	52	52	67	59	59	dB
Average Gain (O.E.S.: DIN, 2cc: HFA, Pi=50 dB SPL)	50	46	46	58	53	53	dB
Frequency range (O.E.S.: DIN, 2cc: IEC 60118-7)	100 - 6460	100 - 6330	100 - 6330	100 - 4520	100 - 4820	100 - 4820	Hz
Equivalent input noise	27	26	26	24	24	24	dB SPL
Total Harmonic distortion at 500 Hz at 800 Hz at 1600 Hz	2,3 2,6 2,9	1,2 1,1 1,9	1,2 1,1 1,9	0,9 1,5 0,7	0,6 0,9 1,0	0,6 0,9 1,0	% % %
Maximum telecoil sensitivity (10 mA/m)	111	-	-	117	-	-	dB SPL
HFA-SPLITS @ 31.6 mA/m (ANSI)	-	99	99	-	107	107	dB SPL
Current Drain (O.E.S.: RTG, Pi=60 dB SPL, 1600 Hz, 2cc: RTG, Pi=65 dB SPL, 1 kHz)	0,99	1,0	1,0	0,99	1,1	1,1	mA
Battery Size	13	13	13	13	13	13	
Battery Life (Average)	293	279	279	293	276	276	hours
Reference Test Gain (O.E.S.: 1600 Hz, 2cc: HFA, Pi=60 dB SPL)	40	39	39	51	47	47	dB

Maximum Output (OSPL 90)



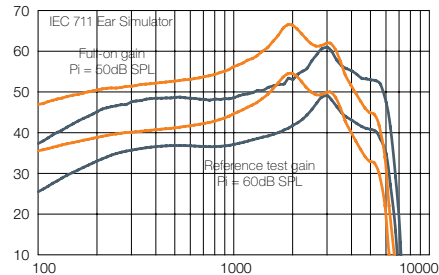
Maximum Output (OSPL 90)



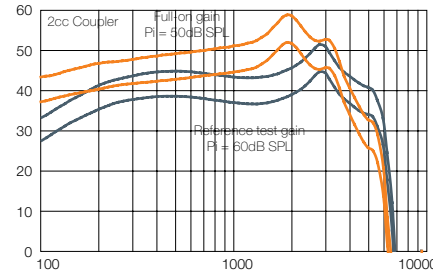
Notes:
O.E.S. = Occluded Ear Simulator
2cc = 2 cm³ coupler
Pi = Acoustic input signal

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

Full-On and Reference Test Gain

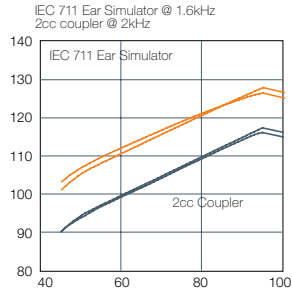


Full-On and Reference Test Gain

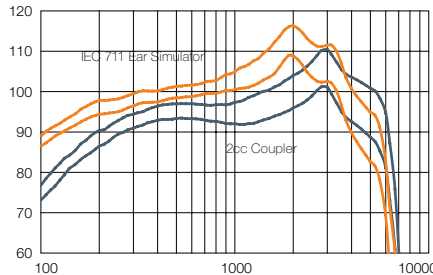


Measured according IEC 118-0 1983, amendment 1994; at 1.3 V and 23°C on O.E.S. according to IEC711 1981, resp on 2cc according to IEC60118-7 2nd edition 2005 (DIN average calculated at 500 Hz, 1000 Hz and 2000 Hz; HFA average calculated at 1000 Hz, 1600 Hz and 2500 Hz; 0 dB SPL sound pressure equals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

Input/Output Response



Telecoil



— Standard — HPG