

INTERTON | SCOPE⁴

Let your customers enjoy
a more comfortable sound



S460-D / S460-D Open / S460-D HPG

RIE - TECHNICAL DATASHEET

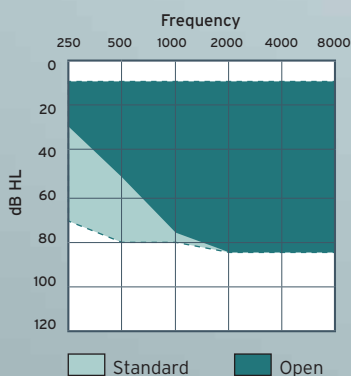
With Interton Scope 4 we introduce a completely new approach to sound with exceptional feedback protection and a new sound technology called SoundScape. Scope 4 is a full family of advanced best-in-class hearing instruments for the active customer who want great sound quality in everyday listening situations.

Standard Features

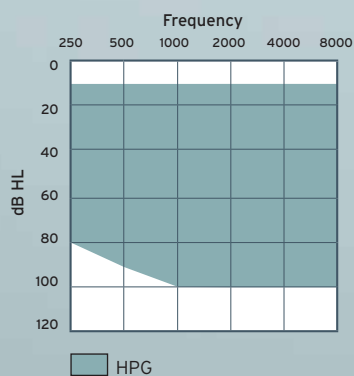
- Logarithmic 9 Channel WDRC
- 6 Gain Handles in Fitting Software
- SoundScape Technology
- Selectable beamwidth
- Background Noise Reduction
- Microphone Noise Reduction
- Adaptive Feedback Cancellation
- Feedback Guard
- Data Logging - Quick View
- Power-on Delay
- Audible Signal Tones
- Earwax Management System
- Standard, Power and Open Fit Configurations
- On/Off switch via the battery door
- Left/right side indicators
- 10A battery
- VC, Push Button & Telecoil standard

Fitting ranges

S460-D / S460-D Open



S460-D HPG



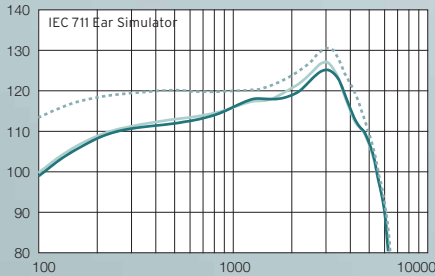
Technical specifications RIE

		S460-D			S460-D Open			S460-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	IEC 118-0 Ear Simulator	IEC 118-7 2cc Coupler	ANSI S3.22	
Reference test gain (60 dB SPL input)	1600Hz*/HFA**	41	34	34	40	34	34	43	38	38	dB
Full-on gain (50 dB SPL input)	Max.	64	53	53	61	51	51	68	57	57	dB
	1600Hz*/HFA**	53	46	46	53	46	46	56	50	50	
Maximum output (90 dB SPL input)	Max.	127	116	116	125	114	114	130	120	120	dB SPL
	1600Hz*/HFA**	118	111	111	118	111	111	121	115	115	
Total harmonic distortion	800 Hz	3,4	1,8	1,8	3,1	1,8	1,8	3,1	1,6	1,6	%
	1600 Hz	1,8	1,1	1,1	1,9	1,1	1,1	1,5	0,9	0,9	
Telecoil sensitivity (1 mA/m input)	Max.	92	-	-	88	-	-	97	-	-	dB SPL
Full-on Telecoil sensitivity @ 1mA/m	1600 Hz	80	-	-	80	-	-	86	-	-	dB SPL
	HFA	-	73	73	-	73	73	-	79	79	
HFA - SPLITS @ 31.6 mA/m (ANSI)	HFA	-	94	94	-	92	92	-	98	98	dB SPL
Equivalent input noise, w/o Noise reduction		31	28	28	29	27	27	33	32	32	dB SPL
1/3 Octave Equivalent Input Noise, w/o Noise reduction	1600 Hz	15	-	-	15	-	-	16	-	-	dB SPL
Frequency range (DIN 45605)		160- 5490	110- 5320	110- 5320	170- 5540	100- 5410	100- 5410	100- 5410	100- 5230	100- 5230	Hz
Current Drain		0,88	0,92	0,92	0,86	0,91	0,91	0,81	0,86	0,86	mA
Typical Battery life time (Battery type 10)		103	98	98	105	99	99	111	105	105	hrs

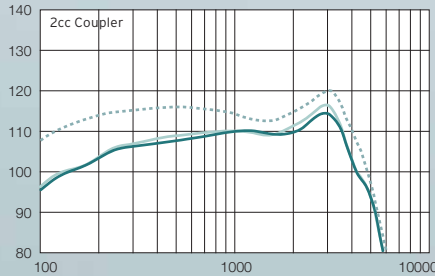
* IEC 118-0, Ear Simulator

** IEC 118-7 and ANSI S3.22, 2cc coupler

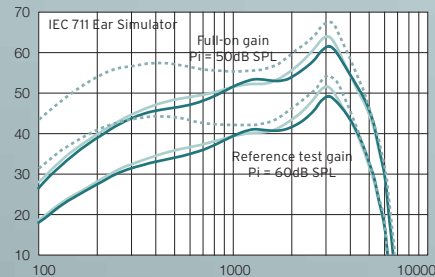
Maximum Output (OSPL 90)



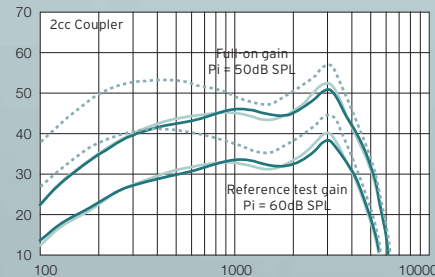
Maximum Output (OSPL 90)



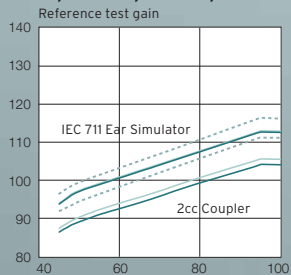
Full-On and Reference Test Gain



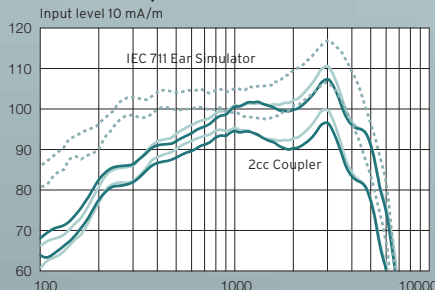
Full-On and Reference Test Gain



Input/Output Response



Telecoil response



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 dB SPL sound pressure equals 20→Pa). All measurements without DSP features activated unless indicated otherwise.

