

sound XC Pro

R312 Receiver-in-Canal (RIC) Hearing System Series



R312

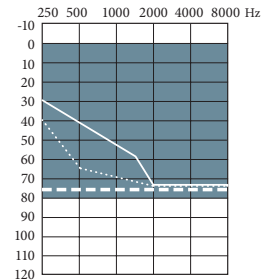
Functionalities	9	7	5	3
Direct Connectivity				
Bluetooth (HFP/A2DP)	•	•	•	•
TV Connector	•	•	•	•
Telephone (MFA)	•	•	•	•
Detection				
SurroundSupervisor XC	•	•	•	•
Localization and Focus				
ConversationOptimizer XC Pro	•			
SphereSound XC Natural	•			
SphereSound XC Personalized	•			
SphereSound XC	•	•	•	
SpeechBeam XC Natural	•			
SpeechBeam XC		•		
Automatic Program				
Conversations in a crowd	•			
Conversations in a small group	•	•		
Music	•	•		
Quiet	•	•	•	
Noise	•	•	•	
Conversations in quiet	•	•	•	•
Conversations in noise	•	•	•	•
AutoSurround XC	7	6	4	2
AutoStream XC (SpeechStream, MusicStream)	•	•	•	•
Optimization and Comfort				
ConversationBoost XC Pro	•	•	•	
Intelligent Acclimatization	•	•	•	•
SoundRestore XC	•	•	•	•
SurroundOptimizer XC	•	•	•	•
ConversationLift	•	•	•	•
NoiseReduction	•	•	•	•
FeedbackManager	•	•	•	•
Sound Impulse Manager	•	•	•	•
Active Wind Block	•	•	•	•
Channels and Programs				
Channels (G/AGC)	20	16	14	12
No. of programs (AutoSurround XC/Manual/Wireless)	7/3/5	6/3/5	4/3/5	2/3/5

In all technology levels

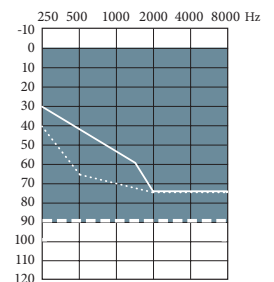
FocussedFit, stream remote App, SDS 4.0 (Receiver and Domes), BiLink, BiPhone, DataLogging, Tinnitus Manager

Receiver 4.0	Standard S	Moderate M	Power P	Ultra Power UP
Output / gain	111 / 46	114 / 50	122/58	130/67
Cap Dome	•	•	•	
Open Dome	•	•	•	
Vented Dome	•	•	•	
Power Dome	•	•	•	
Slim Tip (Acryl/Silicone)	•	•	•	
cShell	•	•	•	•

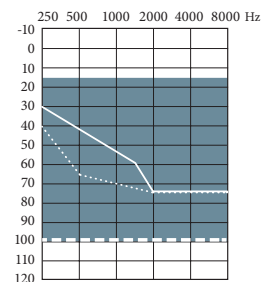
Fitting Guides



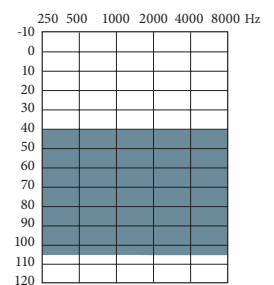
Standard Receiver (S)



Moderate Receiver (M)



Power Receiver (P)



Ultra Power Receiver (UP)

- Open Dome/Cap Dome
- ... Vented Dome
- Power Dome or Slim Tip

sound XC Pro R312 is rated IP 68



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ANSI 3.22 2014/IEC 60118-0: 2015 2cc coupler technical data

	OSPL90				
	Maximum (dB SPL)	111	114	122	130
	HFA - OSPL90 (dB SPL)	106	111	120	124
	Full on gain (input 50 dB SPL)				
	Maximum (dB)	46	50	58	67
	HFA - FOG (dB)	39	45	55	62
	Reference test setting (RTS)				
	Frequency range (Hz)	<100 - 8000	<100 - 8000	<100 - 6300	<100 - 6000
	Reference test gain (dB)	29	34	43	47
	Current drain at RTS (mA)	2.2	2.1	2.2	2.1
	Equivalent input noise at RTS (dB SPL)	19	19	19	19
	Total harmonic distortion at 500 Hz/800 Hz/1600 Hz/3200 Hz (%)	1.5/2.0/2.0/1.0	1.5/2.0/2.0/1.0	1.0/1.5/1.0/1.0	1.5/1.5/1.0/1.0
Electromagnetic compatibility					
EMC immunity by ANSI c63.19-2011 EMC, omni		M4	M4	M4	M4

IEC 60118-0: 1994 OES coupler technical data

Reference test frequency - IEC 60118-0 (kHz)		1.6	1.6	1.6	1.6
	OSPL90				
	Maximum (dB SPL)	121	124	131	136
	at RTF (dB SPL)	114	117	126	134
	Full on gain (input 50 dB SPL)				
	Maximum (dB)	57	61	67	74
	at RTF (dB)	47	53	61	73
	Basic frequency response				
	Frequency range (DIN 45605) (Hz)	<100 - 9000	<100 - 9400	<100 - 6500	<100 - 4200
	Reference test gain (dB)	39	42	51	59
	Current drain at RTG (mA)	2.1	2.1	2.1	2.2
	Equivalent input noise at RTG (dB SPL)	19	19	19	19
	Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.0/1.5/2.0	1.0/1.5/1.5	1.5/2.5/2.0	1.5/1.5/1.0
Electromagnetic compatibility					
EMC immunity by IEC 60118-13, 2016 field strength		25/21/12	26/21/16	30/24/17	39/23/19
90/50/35 V/m, omni. IRIL low/medium/high band (dB SPL)					

Legend

- Standard Power
- Moderate Power
- Power
- Ultra Power

Test conditions

Battery size: 312; Source: voltage 1.3 V
 The measurements obtained with a closed configuration using an HA-1 coupler (ANSI-3.7-1995).
 The hearing instrument set to HANSATON scout test settings. LLE is applied at an approximate level of 35 dB SPL.
 Domes should never be fit on patients with perforated eardrums, exposed middle ear cavities, or surgically altered ear canals. In the case of such a condition, we recommend use of a customized earmold.
 Sound pressure level of these hearing aids exceeds 132 dB SPL.
 We reserve the right to change specification data without notice as improvements are introduced.