

AQ sound XC Pro RT

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



Rechargeable

Functionalities	9	7	5	3
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Direct Connectivity

Bluetooth (HFP/A2DP)	•	•	•	•
TV Connector	•	•	•	•
Telephone (MFA)	•	•	•	•

Detection

SurroundSupervisor XC	•	•	•	•
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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

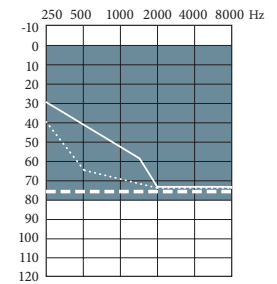
Channels (G/AGC)	20	16	14	12
No. of programs (AutoSurround XC/Manual/Wireless)	7/3/5	6/3/5	4/3/5	2/3/5

In all technology levels

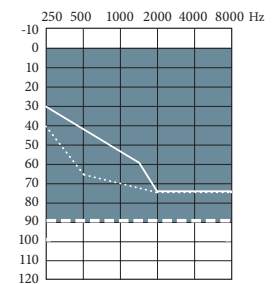
FocussedFit, stream remote App, SDS 4.0 (Receiver and Domes), BiLink, BiPhone, DataLogging, Tinnitus Manager, Telecoil

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	•	•	•	•

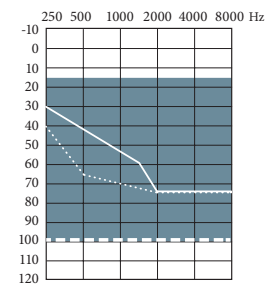
Fitting Guides



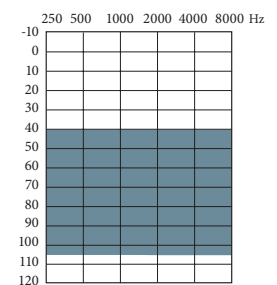
Standard Receiver (S)



Moderate Receiver (M)



Power Receiver (P)



Ultra Power Receiver (UP)

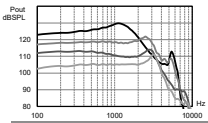
- Open Dome/Cap Dome
- ... Vented Dome
- Power Dome or Slim Tip

AQ sound XC Pro RT is rated IP 68

AQ sound XC Pro RT

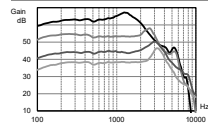
Standard (S) Moderate (M) Power (P) Ultra Power (UP)

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



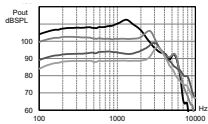
OSPL90

Maximum (dB SPL)	111	114	122	130
HFA - OSPL90 (dB SPL)	106	111	120	124



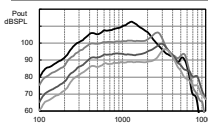
Full on gain (input 50 dB SPL)

Maximum (dB)	46	50	58	67
HFA - FOG (dB)	39	45	55	62



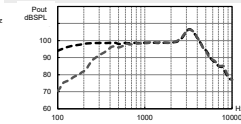
Reference test setting (RTS)

Frequency range (Hz)	<100 - 8000	<100 - 8000	<100 - 6300	<100 - 6000
Reference test gain (dB)	29	34	43	47
Typical battery life (h)	18	18	18	18
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



Induction coil sensitivity (31.6 mA/m)

HFA SPLIV / ETLs-RTLS (dB SPL/dB)	89/0	94/0	103/0	107/0
HFA MASL (1 mA/m at full on gain) (dB SPL)	69	76	84	92



Standard: mic at 70 dB SPL vs. induction coil at 100 mA/m

--- Mic
--- Induction Coil

Electromagnetic compatibility

EMC immunity by ANSI c63.19-2011 EMC, omni/telecoil	M4/T4	M4/T4	M4/T4	M4/T4
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Legend

- Standard Power
- Moderate Power
- Power
- Ultra Power

Test conditions

Lithium-Ion rechargeable battery; Source: voltage 3.8 V
 The measurements obtained with a closed configuration using an HA-1 coupler (ANSI-3.7-1995).
 The hearing system is set to HANSATON scout test settings. LLE (Low Level Expansion) 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.
 We reserve the right to change specification data without notice as improvements are introduced