

AQ sound SHD S

Rechargeable receiver in canal (RIC) hearing aid series



rechargeable

Functionalities	9	7	5
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Detection

SurroundSupervisor SHD	•	•	•
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Localization and Focus

SphereSound SHD Dynamic	•		
SpeechBeam SHD-3	•		
SphereSound SHD Personalized	•	•	
SpeechBeam SHD-2		•	
SphereSound SHD Static	•	•	•
SpeechBeam SHD-1			•

Automatic Program

Music	•	•	
Noise	•	•	•
Conversations in a small group	•	•	•
Conversations in a crowd	•	•	•
Conversations in noise	•	•	•
Conversations in quiet	•	•	•
Quiet	•	•	•
AutoSurround SHD	7	7	6

Optimization and Comfort

SurroundOptimizer SHD	•	•	•
AcclimatizationManager	•	•	•
ConversationLift+	•	•	•
NoiseReduction	•	•	•
FeedbackManager	•	•	•
Sound Impulse Manager SHD	•	•	•
Active Wind Block	•	•	•
SoundRestore	•	•	•
DataLogging	•	•	•
Tinnitus Manager	•	•	•
PhoneConnect	•	•	•
BiLink	•	•	•
BiPhone	•	•	•
Bluetooth (accessory needed)	•	•	•

Channels and Programs

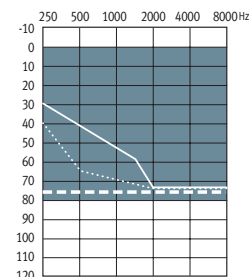
Channels (G/AGC)	20	16	12
No. of programs (AutoSurround SHD/Manual/Wireless)	7/3/3	7/3/3	6/3/3

In all technology levels

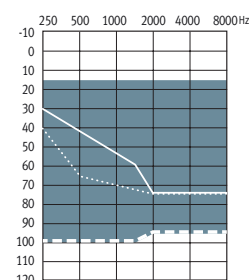
Rechargeable battery Li-Ion 13, RCV2, uStream, uDirect3, uTV3, uMic2

Receiver type	Standard (xS)	Power (xP)	Super Power Plus (xSP plus)
Output / gain	111 / 46	124 / 57	130/66
Open dome	•	•	
Closed dome	•	•	
Power dome	•	•	
Sleeve mold	•	•	
cShell (hard and soft options)	•	•	•

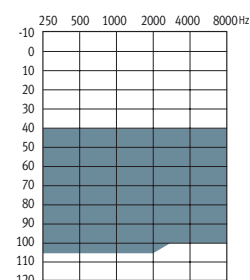
Fitting guides



Standard Receiver (xS)



Power Receiver (xP)



Super Power Plus Receiver (xSP plus)

- Open dome
- • • Closed dome
- - - Power dome or sleeve mold

programmable with iCube II only, AQ sound SHD S is rated IP 68



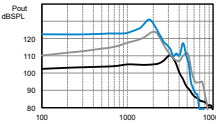
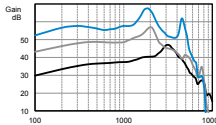
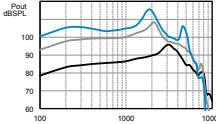
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AQ sound SHD S

Rechargeable RIC series

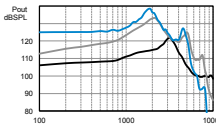
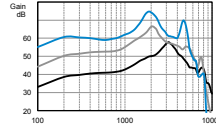
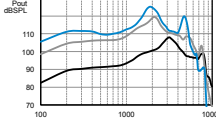
Standard Receiver (xS) Power Receiver (xP) Super Power Plus Receiver (xSP plus)

ANSI 3.22 2014/IEC 60118-7 2005 2cc coupler technical data

Reference test frequency - IEC 60118-7 (kHz)		1.6	1.6	1.6
	OSPL90			
	Maximum (dB SPL)	114	127	133
	HFA - OSPL90 (dB SPL)	111	124	130
	Full on gain (input 50 dB SPL)			
	Maximum (dB)	47	57	67
	HFA - FOG (dB)	40	52	59
	Reference test setting (RTS)			
	Frequency range (Hz)	<100-8500	<100-7300	<100-6000
	Reference test gain (dB)	29	43	47
Typical battery life (h)	24	24	24	
Equivalent input noise at RTS (dB SPL)	19	18	19	
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.0/1.0/1.0	1.5/1.0/0.5	1.0/1.5/1.0	
Electromagnetic compatibility				
EMC immunity by ANSI c63.19-2011 EMC, omni	M4	M4	M3	

* Expected operating time of the rechargeable battery depends on active features, the use of wireless accessories, hearing loss, battery age and sound environment.

IEC 60118-o OES coupler technical data

Reference test frequency - IEC 60118-o (kHz)		1.6	1.6	1.6
	OSPL90			
	Maximum (dB SPL)	122	133	138
	at RTF (dB SPL)	114	130	136
	Full on gain (input 50 dB SPL)			
	Maximum (dB)	58	67	74
	at RTF (dB)	48	62	71
	Basic frequency response			
	Frequency range (DIN 45605) (Hz)	< 100-9500	< 100-6500	< 100-5500
	Reference test gain (dB)	39	55	61
Typical battery life (h)	24	24	24	
Equivalent input noise at RTG (dB SPL)	19	19	19	
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.0/1.5/1.5	1.5/1.5/1.0	1.5/1.5/1.0	
Electromagnetic compatibility				
EMC immunity by IEC 60118-13, 2011 field strength 90/50/35 V/m, omni. IRIL low/medium/high band (dB SPL)	41/32/41	41/29/39	43/28/41	

* Expected operating time of the rechargeable battery depends on active features, the use of wireless accessories, hearing loss, battery age and sound environment.

Legend Test conditions

- xS receiver
- xP receiver
- xSP plus receiver

Lithium-Ion rechargeable battery: 13; Source: voltage 3.8 V
 The measurements obtained with a closed configuration using an HA-1 coupler (ANSI-3.7-1995) or occluded ear simulator (EN 60711, coupling arrangement according to fig. 4 in the test standard). The hearing system 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.
 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.

