AQ HD S

Rechargeable receiver in canal (RIC) hearing aid series

rechargeable

Performance profile	9	7	5
Channels / bands	20	16	12
Processing types	WDRC and linear	WDRC and linear	WDRC and linear
Adaptive Directional	Multiband	Multiband	Multiband

Features			
SpeechBeam+	•		
SpeechBeam		•	
AutoSurroundHD	7 surroundings	6 surroundings	5 surroundings
SurroundOptimizerHD	•	•	•
AcclimatizationManager	•	•	•
BiPhone/BiLink	•	•	•
Pinna Effect	•	•	•
Manual programs	Up to 3	Up to 3	Up to 3
SoundRestore	•	•	•
FeedbackManager	•	•	•
Direct Sound Management (DSM)	•	•	•
Sound Impulse Manager	•	•	•
PhoneConnect	•	•	•
MusicSelect	Automatic	Automatic	•
Rechargeable battery	Li-Ion 13	Li-Ion 13	Li-Ion 13

In all technology levels

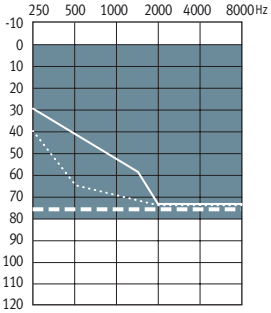
3 wireless programs, DataLogging, Active Wind Block, Tinnitus Manager, plasma coating and IP68

Accessories (optional)			
Remote control RCV2	•	•	•
uStream	•	•	•
uDirect3	•	•	•
uTV3	•	•	•
uMic2	•	•	•

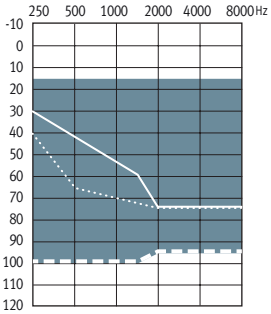
Receiver type	Standard (xS)	Power (xP)	Super power plus (xSP plus)
Output / gain	111/ 46	124 / 57	130 / 66
Open dome	•	•	
Closed dome	•	•	
Power dome	•	•	
Sleeve mold	•	•	
cShell (hard / soft)	•	•	•

programmable with iCube II only

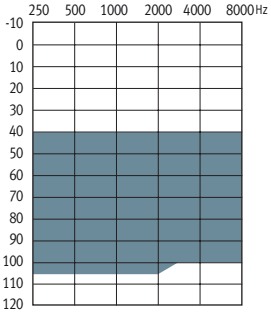
Fitting guides



Standard receiver (xS)



Power receiver (xP)



Super power plus receiver (xSP plus)

Open dome
Closed dome
Power dome or sleeve mold

IE SP

CE 0124

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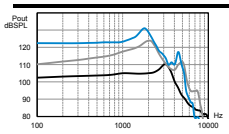
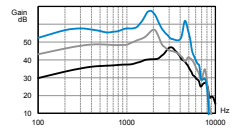
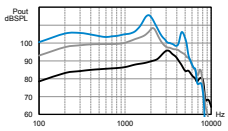
AQ HD S

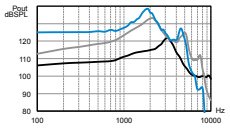
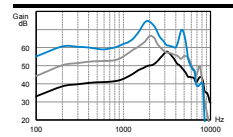
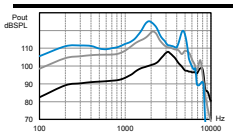
Rechargeable RIC series

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

	Standard receiver (xS)	Power receiver (xP)	Super power plus (xSP plus)
Reference test frequency - IEC 60118-7 (kHz)	1.6	1.6	1.6
 OSPL90			
Maximum (dB SPL)	111	124	130
HFA - OSPL90 (dB SPL)	106	120	124
at RTF (dB SPL)	105	121	129
 Full on gain (input 50 dB SPL)			
Maximum (dB)	46	57	66
HFA - FOG (dB)	37	52	59
at RTF (dB)	39	52	64
 Reference test setting (RTS)			
Frequency range (Hz)	‹100 - 8500	‹100 -7300	‹100 - 6000
Reference test gain (dB)	29	43	47
Typical battery runtime (h)*	24	24	24
Equivalent input noise at RTS (dB SPL)	19	19	19
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.5/2.0/2.0	1.0/1.0/1.0	1.5/1.5/1.0

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

IEC 60118-0 OES coupler technical data

	Standard receiver (xS)	Power receiver (xP)	Super power plus (xSP plus)
Reference test frequency - IEC 60118-0 (kHz)	1.6	1.6	1.6
 OSPL90			
Maximum (dB SPL)	122	132	138
at RTF (dB SPL)	113	131	136
 Full on gain (input 50 dB SPL)			
Maximum (dB)	56	65	74
at RTF (dB)	45	62	71
 Basic frequency response			
Frequency range (DIN 45605) (Hz)	‹100 - 9500	‹100 - 6500	‹100 - 5500
Reference test gain (dB)	38	55	61
Typical battery runtime (h)*	24	24	24
Equivalent input noise at RTG (dB SPL)	19	19	19
Total harmonic distortion at 500 Hz/800 Hz/1600 Hz (%)	1.5/2.0/2.5	1.5/1.5/1.5	1.5/1.5/1.0

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

Legend

- xS receiver
- xP receiver
- xSP plus receiver

Test conditions

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 instrument set to HANSATON scout test settings.

LLE (Low level expansion) is applied at an approximate level of 35 dB SPL.
In the case of such a condition, we recommend use of a customized earmold.

Domes should never be fit on patients with perforated eardrums, exposed middle ear cavities, or surgically altered ear canals.
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.

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