

# soundHD

S312e receiver in canal (RIC) hearing aid series



S312e

Performance profile	9	7	5	3
Channels / bands	20	16	12	8
Processing types	WDRC and linear	WDRC and linear	WDRC and linear	WDRC and linear
Adaptive Directional	Multiband	Multiband	Multiband	Multiband

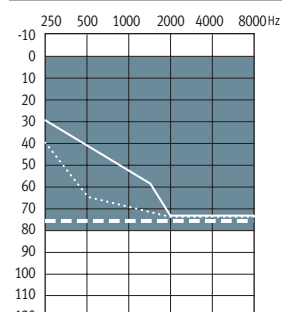
Features				
SpeechBeam+	•			
SpeechBeam		•		
AutoSurroundHD	7 surroundings	6 surroundings	5 surroundings	2 surroundings
SurroundOptimizerHD	•	•	•	•
AcclimatizationManager	•	•	•	•
BiPhone/BiLink	•	•	•	•
Pinna Effect	•	•	•	•
Manual programs	Up to 3	Up to 3	Up to 3	Up to 3
SoundRestore	•	•	•	•
FeedbackManager	•	•	•	•
Direct Sound Management (DSM)	•	•	•	•
Sound Impulse Manager	•	•	•	•
PhoneConnect	•	•	•	•
MusicSelect	Automatic	Automatic	•	•
Telecoil	•	•	•	•

**In all technology levels**  
3 wireless programs, DataLogging, Active Wind Block, Tinnitus Manager, plasma coating and IP 67

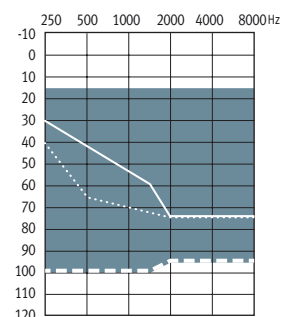
Accessories (optional)				
Remote control RCV2	•	•	•	•
uStream	•	•	•	•
uDirect3	•	•	•	•
uTV3	•	•	•	•
uMic2	•	•	•	•

Receiver type	Standard (xS)	Power (xP)	Super power (xSP)
Output / gain	113 / 47	127 / 57	131 / 63
Open dome	•	•	
Closed dome	•	•	
Power dome	•	•	
Sleeve mold	•	•	
cShell (hard and soft options)	•	•	•

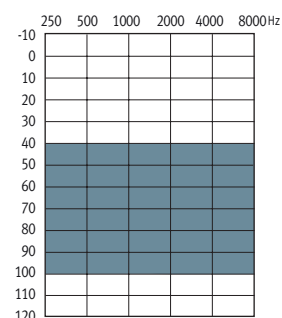
## Fitting guides



Standard receiver (xS)



Power receiver (xP)



Super power receiver (xSP)

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



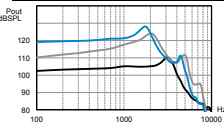
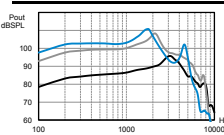
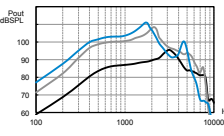
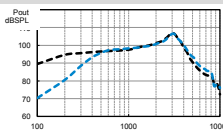
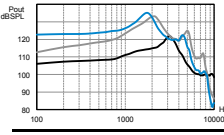
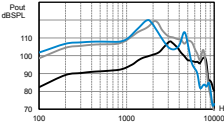
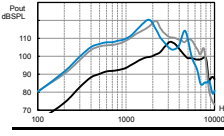
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FE-SP






# soundHD

## S312e RIC series

	Standard receiver (xS)	Power receiver (xP)	Super power (xSP)		
<b>ANSI 3.22 2009/IEC 118-7 2005 2cc coupler technical data</b>					
Reference test frequency - IEC 118-7 (kHz)	1.6	1.6	1.6		
 <p>OSPL90</p>	Maximum (dB SPL)	113	127	131	
	Nominal (dB SPL)	110	124	128	
	HFA - OSPL90 (dB SPL)	106	119	121	
	at RTF (dB SPL)	105	121	127	
	Full on gain (input 50 dB SPL)	Maximum (dB)	47	57	63
	HFA - FOG (dB)	40	49	56	
	at RTF (dB)	40	52	62	
 <p>Reference test setting (RTS)</p>	Frequency range (Hz)	<100 - 8500	<100 - 7300	<100 - 5500	
	Reference test gain (dB)	29	42	44	
	Current drain at RTS (mA)	1.15	1.25	1.2	
	Typical battery life (h)	160	140	150	
	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	0.5/0.5/0.5	
	 <p>Induction coil sensitivity (31.6 mA/m)</p>	HFA SPLITS/STS-RSETS (dB SPL/dB)	89/0	102/0	104/0
		 <p>Standard: mic at 70 dB SPL vs induction coil at 100 mA/m</p> <p>--- Mic - - - Induction Coil</p>			
Electromagnetic compatibility					
EMC immunity by ANSI c63.19-2007 EMC, omni/telecoil	M4/T4	M4/T4	M4/T4		
<b>IEC 118-o OES coupler technical data</b>					
Reference test frequency - IEC 118-o (kHz)	1.6	1.6	1.6		
 <p>OSPL90</p>	Maximum (dB SPL)	122	133	135	
	at RTF (dB SPL)	114	130	134	
	Full on gain (input 50 dB SPL)	Maximum (dB)	58	67	71
	at RTF (dB)	48	62	70	
 <p>Basic frequency response</p>	Frequency range (DIN 45605) (Hz)	<100 - 10000	<100 - 8000	<100 - 5800	
	Reference test gain (dB)	39	55	59	
	Current drain at RTG (mA)	1.15	1.2	1.2	
	Typical battery life (h)	160	150	150	
	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	1.0/1.0/0.5	
	 <p>Induction coil sensitivity</p>	at RTF (graph shown for 31.6 mA/m at RTG) (dB SPL)	99	115	119
Electromagnetic compatibility					
EMC immunity by IEC 60118-13, 2011 field strength	24/27/27	23/26/24	21/21/28		
90/50/35 V/m, omni. IRIL low/medium/high band (dB SPL)					

### Legend

-  xS receiver
-  xP receiver
-  xSP receiver

### 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) 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. 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.

