

ITE, HS, ITC, CIC

In-The-Ear, Half-Shell,
In-The-Canal, Completely-In-Canal

11 • 9 • 7 • 5



At the heart of every S Series hearing instrument is Starkey's newest, state-of-the-art integrated circuit platform, Drive Architecture, designed to deliver maximum performance and maximum patient satisfaction.

Features

Sound Imaging

S Series 11

Optimal high-resolution sound imaging with frequency shaping in all 16 channels and 16 bands

S Series 9

High-resolution sound imaging with frequency shaping in 12 channels and 12 bands

S Series 7

Frequency shaping in 8 channels and 8 bands

S Series 5

6 channels and 6 bands

PureWave Feedback Eliminator

- Provides best-in-class feedback cancellation
- When fit open, S Series has the widest fitting range and usable high-frequency bandwidth of any open fit instrument in its class

Acoustic Scene Analyzer

Continuously scans the environment and adapts appropriately for maximizing performance in noise and preserving speech recognition

AudioScape

In addition to superior directionality, Starkey's new acoustic pattern recognition system, AudioScape, with patented, real-time environment detection and classification, adapts to any listening environment by seamlessly adjusting to the patient's preferred settings

Comfort Control

Available on S Series 11

Allows you to work with your patients to set the system based on their specific needs – resulting in a more comfortable, personalized listening experience

InVision Directionality

- Automatically adapts to ensure optimal performance in all listening situations
- S Series boasts the highest mean DI scores and the lowest operational noise floor, helping patients significantly increase their understanding in noise

Live Real Ear Measurement

Provides accurate measures of real-ear output in your patient's ear, in real-ear SPL, while the system evaluates the hearing aid response and matches to your selected target – providing you with the most precise fitting information available

T² (Touch-Tone)

Adjustment for volume and memory via any cell or touch-tone telephone

Self Check

Available on S Series 11

Allows hearing professional and patient to perform a diagnostic check of the microphone, circuit and receiver

Reminder

Available on S Series 11

Offers hearing professionals the option of programming audible voice or tone reminders for follow-up appointments and maintenance checks

Leisure Listening Memories

TV memory program designed for optimal performance while watching television

Available on S Series 11

Multiple music genre settings designed to maximize sound quality and listening enjoyment

Automatic Telephone Solutions

Automatically detects telephone use and adjusts to the optimal acoustic frequency response for telephone listening

Voice Indicators

Available on S Series 11

Alerts patients to the status of their hearing aid, low battery, memory and telephone modes in their choice of male or female voices in a wide variety of languages

Tonal Indicators

Unique tones for memory, low battery, etc.

Auto Path

- Automatic fitting routine
- Provides an accurate and efficient first fit

Live 3D Speech Mapping

Available on S Series 11

- Allows hearing professional to verify how the hearing aid processes speech, or any live acoustic input, in real time
- 3D display engages patient and family in fitting process

Live Speech Mapping

Available on S Series 11/9/7/5

Verifies hearing aid's processing of speech, or any live acoustic input, in real time

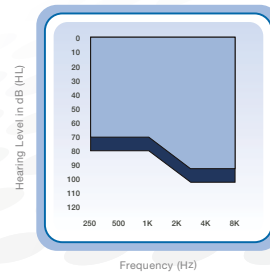
Verify Comfort

In-Situ Audiometry

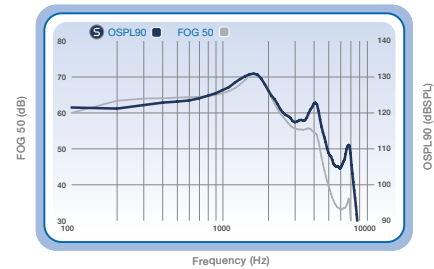
Data Logging

S Series ITE, HS, ITC, CIC ANSI/IEC Data

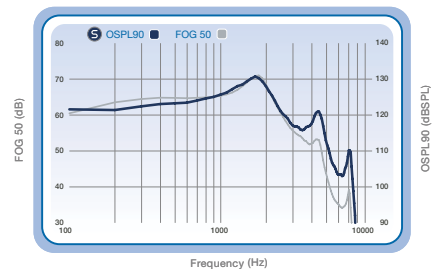
Measurement	ITE		HS/ITC		CIC	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115-131	124-139	110-131	119-139	110-131	119-139
HFA OSPL90 (dB SPL)	111-126	NA	106-126	NA	106-126	NA
RTF OSPL90 (dB SPL)	NA	118-138	NA	114-138	NA	114-138
Peak Gain (dB)	45-71	54-79	40-71	50-79	35-71	50-79
HFA Full-On Gain (dB)	41-65	NA	36-65	NA	31-65	NA
RTF Full-On Gain (dB)	NA	47-79	NA	43-78	NA	43-78
Frequency Range (Hz)	100 - 7000	NA	100 - 7000	NA	100 - 7000	NA
Reference Test Frequency (kHz)	NA	1.6	NA	1.6	NA	1.6
HFA Frequencies (kHz)	1.0, 1.6, 2.5	NA	1.0, 1.6, 2.5	NA	1.0, 1.6, 2.5	NA
Reference Test Gain (dB)	34-49	40-64	29-49	36-63	29-49	36-63
Harmonic Distortion						
500 Hz (%)	<3	<3	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3	<3	<3
Equivalent Input Noise (dB SPL)	<28	<28	<28	<28	<28	<28
Attack and Release Time (ANSI/IEC) – Test Mode						
Attack Time (ms)	20	20	20	20	20	20
Release Time 0.1s (ms)	5-150	5-250	5-150	5-250	5-150	5-250
Release Time 2.0s (ms)	5-150	5-250	5-150	5-250	5-150	5-250
Induction Coil Sensitivity						
HFA SPLITS (ANSI) (dB SPL)	94-109	NA	89-109	NA	NA	NA
MASL (IEC) (dB SPL)	NA	77-109	NA	73-108	NA	NA
ANSI/IEC Battery Current (mA)	1.1-1.7	1.1-1.7	1.1-1.7	1.1-1.7	1.1-1.7	1.1-1.7
Idle Current (mA)	1.0-1.3	1.0-1.3	1.0-1.3	1.0-1.3	1.0-1.3	1.0-1.3
Estimated Battery Life for 16-Hour Day						
13 Zinc Air (days)	13-17	13-17	13-17	13-17	13-17	13-17
312 Zinc Air (days)	7-10	7-10	7-10	7-10	7-10	7-10
10 Zinc Air (days)	NA	NA	5-7	5-7	5-7	5-7



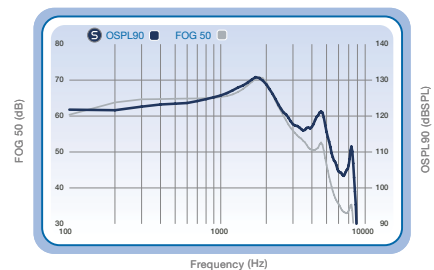
S Series ITE (light blue) and HS/ITC, CIC (dark blue) fitting range.



OSPL90 (blue) and Full-On Gain (gray) curves for the S Series ITE at the highest matrix of 131/71.



OSPL90 (blue) and Full-On Gain (gray) curves for the S Series HS/ITC at the highest matrix of 131/71.



OSPL90 (blue) and Full-On Gain (gray) curves for the S Series CIC at the highest matrix of 131/71.

Measurement Conditions and Recommendations

The data for S Series are obtained and performance is expressed according to ANSI S3.22 (2003), IEC 60118-7 (2005) and IEC 60118-0 (1983) with Amendment 1 (1994-01). The Starkey proprietary Real Time Analyzer as well as the Starkey Automated Design Verification Test System (SADVTS) comprise the basic test equipment. Data may be subject to change with product refinement.

Because of the adaptive signal processing capabilities of S Series hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. S Series hearing instruments may be set to test mode with Inspire® by reading the hearing aid and selecting the "Hearing Aid Test" screen from the menu on the left side of the Inspire window, then selecting the "Full On Gain" button.

RF IMMUNITY LEVEL: These hearing instruments have a cell phone immunity rating of M4/T4. For your cell phone to be compatible with these hearing instruments, the cell phone needs an immunity rating of M1/T1 or higher. Please consult your cell phone specifications for your cell phone immunity rating.