



ITE, HS, ITC, CIC

S series™ iQ11 iQ9 iQ7



Features

Sound Imaging

S Series iQ 11

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

S Series iQ 9

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

S Series iQ 7

Frequency shaping in 8 channels and 8 bands

Voice iQ

- So fast and smart it reduces noise between syllables of speech
- Two-part algorithm uses dynamic voice identification, coupled with a spectral noise control that calculates appropriate gain on a per channel basis
- Reduces listening effort and mental fatigue
- Active at positive signal-to-noise ratios
- Provides unprecedented sound quality, ease of listening, and intelligibility of speech in noise

Acoustic Scene Analyzer

S Series iQ 11

- Premium 16-channel environmental adaptation with 5 levels of personalization
- AudioScapes include: Machine Noise, Speech in Noise, Wind and Quiet

S Series iQ 9

- Advanced 12-channel environmental adaptation with 3 levels of personalization
- AudioScapes include: Machine Noise, Speech in Noise, Wind and Quiet

S Series iQ 7

- Select 8-channel environmental adaptation with 2 levels of personalization
- AudioScapes include: Machine Noise, Wind and Quiet

PureWave Feedback Eliminator

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

InVision Directionality

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

Starkey On Demand

Starkey's leading On Demand options bring the benefits of telehealth to your practice. Designed to elevate your interaction with patients, each one provides an entirely new way for you to provide and deliver care.

T² On Demand

Allows you to make common, standard adjustments to patients' hearing aids over the phone

Audiology On Demand™

Provides on-call access to an audiologist who can remotely operate your fitting computer, offer suggestions and guidance, and ensure a successful fitting

T² Remote

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

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

Live 3D Speech Mapping

Available on S Series iQ 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

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

Self Check

Available on S Series iQ 11

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

Reminder

Available on S Series iQ 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 iQ 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 iQ 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

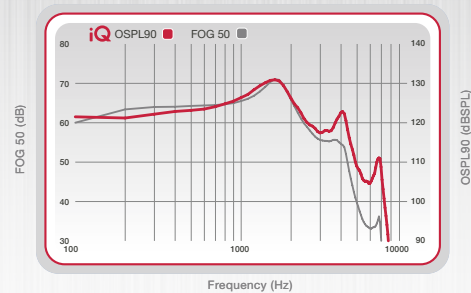
Verify Comfort

In-Situ Audiometry

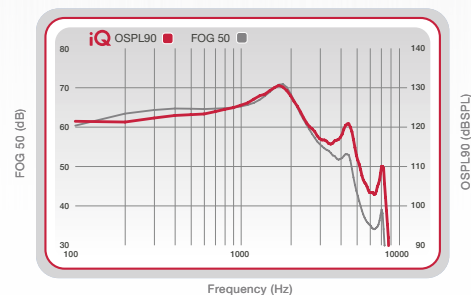
Data Logging

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

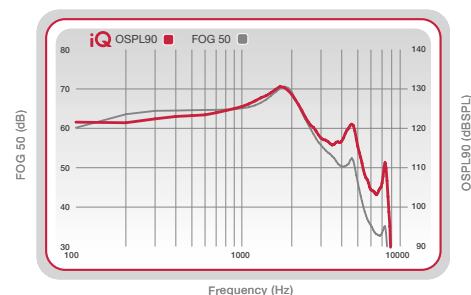
Measurement	ITE		HS/ITC		CIC	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115-131	124-139	110-131	119-139	110-131	119-139
HFA OSPL90 (dB SPL)	111-126	NA	106-126	NA	106-126	NA
RTF OSPL90 (dB SPL)	NA	118-138	NA	114-138	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						
13 Zinc Air (Hours)	13-17	13-17	13-17	13-17	13-17	13-17
312 Zinc Air (Hours)	7-10	7-10	7-10	7-10	7-10	7-10
10 Zinc Air (Hours)	NA	NA	5-7	5-7	5-7	5-7



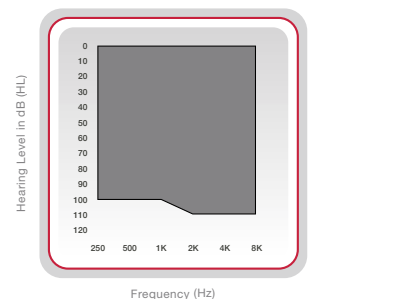
OSPL90 (red) and Full-On Gain (gray) curves for the S Series iQ ITE at the highest matrix of 131/71.



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



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



S Series iQ ITE, HS, ITC and CIC fitting range.

Measurement Conditions and Recommendations

The data for S Series iQ 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 iQ 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 iQ 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.