

Zōn Reference Guide

	FEATURES	.7	.5	.3
Maximum Matrix	RIC 40 Gain	110/40	110/40	110/40
	RIC 50 Gain	115/50	115/50	115/50
	Channels	8	8	4
	Bands	12	10	8
	Memories	4 Standard	4 Standard	4 Standard
	Active Feedback Intercept	Off, Adaptive (default), Static	Off, Adaptive (default), Static	Off, Adaptive (default), Static
Features	Environment Detection	Acoustic Signature (Quiet, Noise, Speech in Noise, Mechanical Sounds, Wind)	Environmental Adaptation (Quiet, Wind and Other Sounds)	Environmental Adaptation (Quiet, Wind and Other Sounds)
	Directional Speech Detector	Dynamic Directional Based on KEMAR	Dynamic Directional Based on KEMAR	Dynamic Directional Based on KEMAR
	Data Log	Standard	Standard	Standard
	Integrated Real Ear	Standard	Standard	Standard
	Self Check	Standard	NA	NA
	Reminder	Standard	NA	NA
	Dynamic Indicators	Voice and Tone	Tone	Tone
	Telephone	Automatic Telephone Response	Automatic Telephone Response	Automatic Telephone Response
	Power-on Delay	Standard	Standard	Standard
	Maximum Output	Up to 22 dB Reduction in 2 dB Steps (range varies by channel)	Up to 22 dB Reduction in 2 dB Steps (range varies by channel)	Up to 22 dB Reduction in 2 dB Steps (range varies by channel)
Compression Characteristics	Compression Threshold	36 dB Range in 4 dB Steps	36 dB Range in 4 dB Steps	36 dB Range in 4 dB Steps
	Compression Ratio	1:1 – 3:1 (range varies by channel)	1:1 – 3:1 (range varies by channel)	1:1 – 3:1 (range varies by channel)

Zōn Hearing Instruments

.7

Zōn[®].7

Top performance where it matters most

This flagship device performs where it matters most, bringing together clarity, directionality and speech audibility in a variety of environments. Its best-in-class features are complimented with patient-friendly Voice Indicators, Self Check diagnostics and patient Reminders. Enhanced fitting features enable infinite precision with Integrated Real Ear Measurement, along with its time-saving Auto Path feature.

.5

Zōn[®].5

Solid performance inside and out

Designed to react to a range of sound environments, the Zōn.5 features the best-in-class Active Feedback Intercept as well as Directional Speech Detector, Data Log, Environmental Adaptation and Integrated Real Ear Measurement. Additional features such as Automatic Telephone Response, multiple programs and Indicators make it a robust mid-level instrument.

.3

Zōn[®].3

Uncompromised performance

This entry-level hearing instrument is ideal for those patients who spend most of their time in simplistic listening environments. The Zōn.3 boasts the performance of Active Feedback Intercept as well as the combination of Data Log, Directional Speech Detector, Environmental Adaptation and Integrated Real Ear Measurement. This four-channel, eight-band device offers flexibility as well as affordability.

Zōn Technical Specifications

.7 | .5 | .3 Series

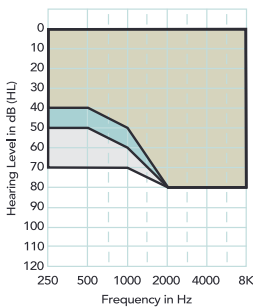
Zōn is a hearing solution that performs where it matters most, bringing together clarity, directionality and speech audibility in a variety of environments.



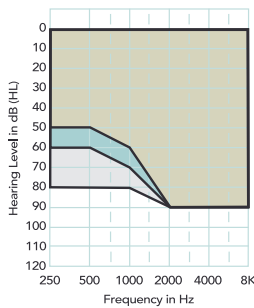
RIC

Zōn Fitting Ranges

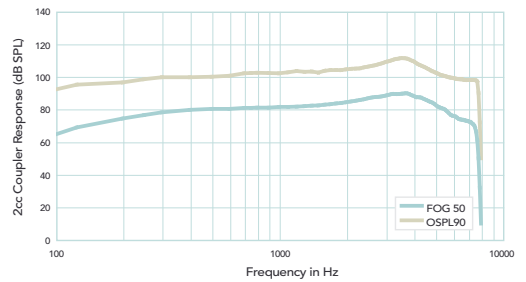
40 Gain Receiver



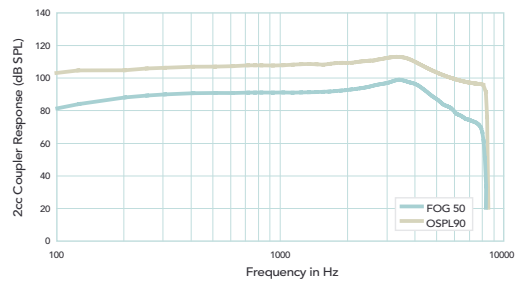
50 Gain Receiver



Zōn with open earbud (tan), occluded earbud (blue) and custom occluded earmold (gray) fitting ranges.



OSPL90 (tan) and Full-On Gain (blue) curves for Zōn at 110/40.



OSPL90 (tan) and Full-On Gain (blue) curves for Zōn at 115/50.

Measurement Conditions and Recommendations

The data for Zōn 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 and 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 Zōn hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. Zōn hearing instruments may be set to test mode with Inspire OS by reading the hearing aid and selecting the "Hearing Aid Test" screen from the menu on the left side of the Inspire OS window, then selecting the "Full On Gain" button.

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

Zōn ANSI/IEC Data

.7 | .5 | .3 Series

RIC (Receiver-In-The-Canal)					
		40 Gain Receiver		50 Gain Receiver	
Measurement	ANSI	IEC	ANSI	IEC	
Peak OSPL90 (dB SPL)	110	122	115	126	
HFA OSPL90 (dB SPL)	105	NA	109	NA	
RTF OSPL90 (dB SPL)	NA	112	NA	118	
Peak Gain (dB)	40	52	50	62	
HFA Full-On Gain (dB)	36	NA	43	NA	
RTF Full-On Gain (dB)	NA	44	NA	52	
Reference Test Frequency (kHz)	NA	1.6	NA	1.6	
HFA Frequencies (kHz)	1.0, 1.6, 2.5	NA	1.0, 1.6, 2.5	NA	
Frequency Range (Hz)	200 - 7600	NA	200 - 7100	NA	
Reference Test Gain (dB)	28	36	32	41	
Harmonic Distortion					
500 Hz	< 1%	< 2%	< 2%	< 3%	
800 Hz	< 1%	< 2%	< 2%	< 3%	
1600 Hz	< 1%	< 2%	< 2%	< 3%	
Equivalent Input Noise (dB SPL)	25	30	25	30	
Attack and Release Time (ANSI/IEC) – Test Mode					
Attack Time (ms)	25	25	20	20	
Release Time 0.1 (ms)	57	57	50	50	
Release Time 2.0 (ms)	57	57	50	50	
Battery Current (mA)	1.3 - 1.4	1.3 - 1.4	1.4 - 1.9	1.4 - 1.9	
Idle Current (mA)	1.2	1.2	1.3	1.3	
Estimated Battery Life for 16-Hour Day					
312 Zinc Air (days)	8 - 9	8 - 9	6 - 8	6 - 8	