

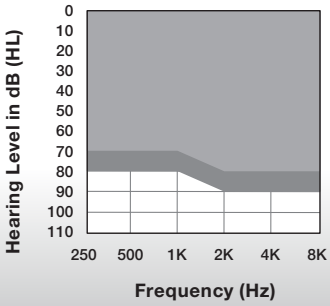
SoundGear Amp 2

RIC 312

Receiver-In-Canal

Fitting Range

- M
- P



Technical Data

Color Guide

Standard Colors

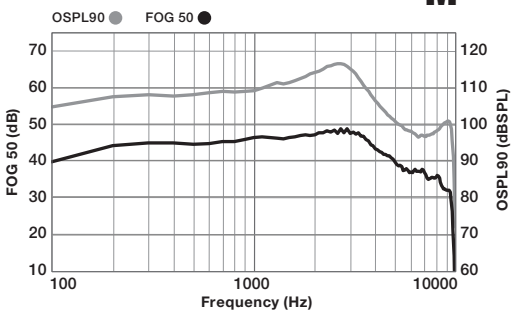
Graphite Gray, Tech Black, Chestnut, Beige

Patient Features

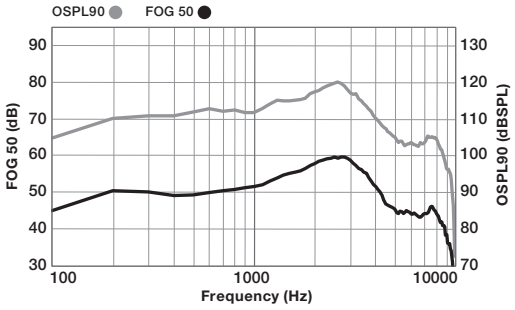
- IP Rating: 68
- Wireless Connectivity
- Dual Radio (2.4 GHz + NFMI)
- Compatible with SoundGear Accessories

	M	P	Matrices: M, P Battery Size: 312
Measurement	ANSI/IEC 2cc Coupler	ANSI/IEC 2cc Coupler	
Peak OSPL90 (dB SPL)	117	120	
HFA OSPL90 (dB SPL)	113	116	
Peak Gain (dB)	49	60	
HFA Full-On Gain (dB)	47	56	
Frequency Range (Hz)	<100-9400	<100-9400	
HFA Frequencies (kHz)	N/A	1.0, 1.6, 2.5	
Reference Test Gain (dB)	36	39	
Equivalent Input Noise (dB SPL) *Expansion On (Default)*	15	15	
Equivalent Input Noise (dB SPL) *Expansion Off*	24	24	
Harmonic Distortion			
500 Hz (%)	<3	<3	
800 Hz (%)	<3	<3	
1600 Hz (%)	<3	<3	
Induction Coil Sensitivity			
HFA SPLITS (ANSI) (dB SPL)	N/A	N/A	
MASL (IEC) (dB SPL)	N/A	N/A	
Estimated Battery Life for 16-Hour Day			
Without streaming (days)	Up to 6	Up to 6	
With streaming (days)	Up to 5	Up to 5	
Battery Current (mA)	1.6	1.6	

M



P



SoundGear is a registered trademark of Starkey Laboratories, Inc. SoundGear Amp is a trademark of Starkey Laboratories, Inc.
©2026 Starkey Laboratories, Inc. All Rights Reserved. 4/26 SPEC3139-00-EN-SG



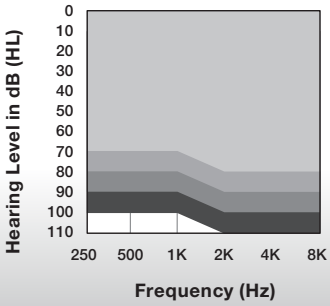
SoundGear Amp 2

RIC 312 CUSTOM CASED

Receiver-In-Canal

Fitting Range

- L
- M
- P
- UP



Technical Data

Color Guide

Standard Colors

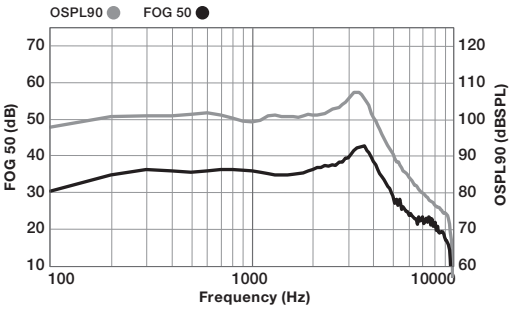
Graphite Gray, Tech Black, Chestnut, Beige

Patient Features

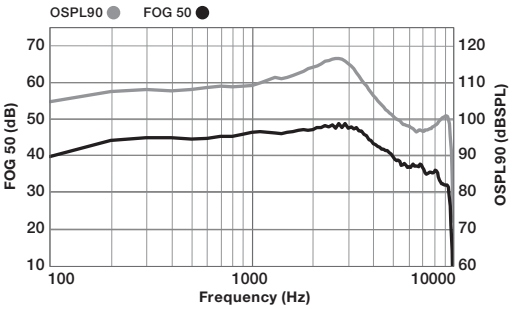
- IP Rating: 68
- Wireless Connectivity
- Dual Radio (2.4 GHz + NFMI)
- Compatible with SoundGear Accessories

	L	M	P	UP	Matrices: L, M, P, UP Battery Size: 312
Measurement	ANSI/IEC 2cc Coupler	ANSI/IEC 2cc Coupler	ANSI/IEC 2cc Coupler	ANSI/IEC 2cc Coupler	
Peak OSPL90 (dB SPL)	107	117	120	125	
HFA OSPL90 (dB SPL)	101	113	116	122	
Peak Gain (dB)	43	49	60	67	
HFA Full-On Gain (dB)	36	47	56	64	
Frequency Range (Hz)	<100-9400	<100-9400	<100-9400	<100-5800	
HFA Frequencies (kHz)	1.0, 1.6, 2.5	1.0, 1.6, 2.5	1.0, 1.6, 2.5	1.0, 1.6, 2.5	
Reference Test Gain (dB)	24	36	39	45	
Equivalent Input Noise (dB SPL) *Expansion On (Default)*	15	15	15	15	
Equivalent Input Noise (dB SPL) *Expansion Off*	24	24	24	24	
Harmonic Distortion					
500 Hz (%)	<3	<3	<3	<3	
800 Hz (%)	<3	<3	<3	<3	
1600 Hz (%)	<3	<3	<3	<3	
Induction Coil Sensitivity					
HFA SPLITS (ANSI) (dB SPL)	N/A	N/A	N/A	N/A	
MASL (IEC) (dB SPL)	N/A	N/A	N/A	N/A	
Estimated Battery Life for 16-Hour Day					
Without streaming (days)	Up to 6	Up to 6	Up to 6	Up to 6	
With streaming (days)	Up to 5	Up to 5	Up to 5	Up to 5	
Battery Current (mA)	1.5	1.6	1.6	1.7	

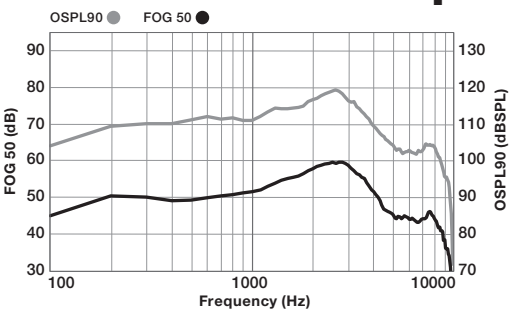
L



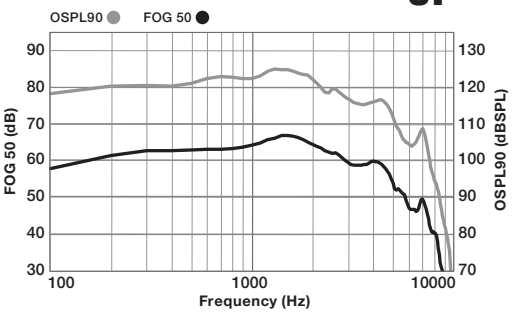
M



P



UP



SoundGear is a registered trademark of Starkey Laboratories, Inc. SoundGear Amp is a trademark of Starkey Laboratories, Inc.
©2026 Starkey Laboratories, Inc. All Rights Reserved. 4/26 SPEC3139-00-EN-SG



SoundGear Amp 2

RIC 312

Receiver-In-Canal



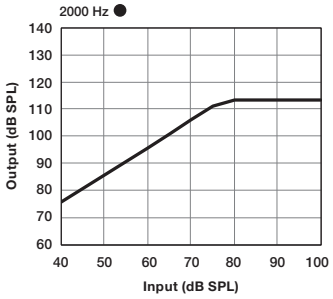
SoundGear Amp 2

RIC 312 CUSTOM CASED

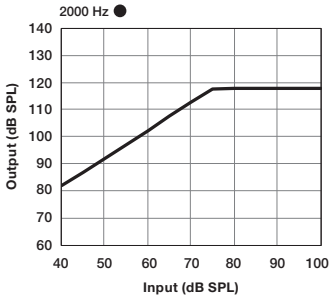
Receiver-In-Canal

Technical Data

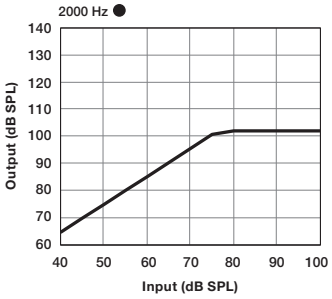
M



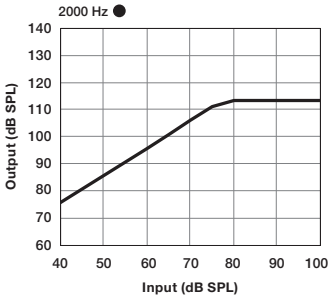
P



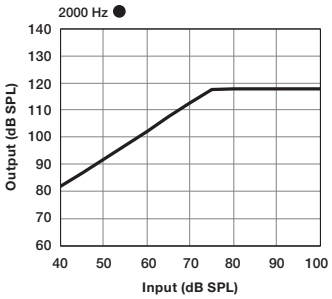
L



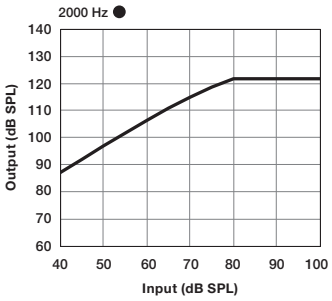
M



P



UP



Latency (ms)	4.3
Attack Time (ms)	1
Release Time (ms)	160

SoundGear is a registered trademark of Starkey Laboratories, Inc. SoundGear Amp is a trademark of Starkey Laboratories, Inc.
©2026 Starkey Laboratories, Inc. All Rights Reserved. 4/26 SPEC3139-00-EN-SG



SoundGear Amp 2

RIC 312

Receiver-In-Canal



SoundGear Amp 2

RIC 312 CUSTOM CASED

Receiver-In-Canal

Wireless Technical Description

Radio Technology

Bluetooth Low Energy

Frequency:	2.4 – 2.4835 GHz
Output Power:	-2.5 dBm
Modulation:	GFSK
Receiver Bandwidth:	1.5 mHz

Near Field Magnetic Induction

Frequency:	10.281 MHz
Maximum Magnetic Field Strength:	-5 dBuA/m at measurement distance of 10 meters
Modulation:	8-DPSK
Receiver Bandwidth:	400 kHz

Standards Applied

FCC ID (USA)

FCC ID: EOA-24EDGR312

ISED Canada ID

IC: 6903A- 24EDGR312

Special Features

Tested to and passed the following emissions and immunity tests

- IEC 60601-1-2 radiated emissions requirements for a Group 1 Class B device as stated in CISPR 11
- RF radiated immunity at a field level of 10 V/m between 80 MHz and 2.7 GHz
- RF radiated immunity to higher field levels from communications devices as stated in Table 9 of IEC 60601-1-2
- Immunity to power frequency magnetic fields at a field level of 30 A/m
- Immunity to proximity magnetic fields as defined in Table 11 of 60601-1-2.
- Immunity to ESD levels of +/- 8 kV conducted discharge and +/- 15 kV air discharge

General Information

These devices comply with part 15 of the FCC rules and with ISED Canada license-exempt RSS standards. Operation is subject to the following two conditions: (1) The device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

Hereby, Starkey Laboratories, Inc. declares that the RIC RT is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. A copy of the Declaration of Conformity can be obtained from the address below or from docs.starkeyhearingtechnologies.com.

Hereby, Starkey Laboratories, Inc. declares that the RIC RT is in compliance with the UK Radio Equipment Regulations SI 2017 as amended. A copy of the UK Declaration of Conformity can be obtained from the following addresses and from docs.starkeyhearingtechnologies.com.

SoundGear is a registered trademark of Starkey Laboratories, Inc. SoundGear Amp is a trademark of Starkey Laboratories, Inc.
©2026 Starkey Laboratories, Inc. All Rights Reserved. 4/26 SPEC3139-00-EN-SG