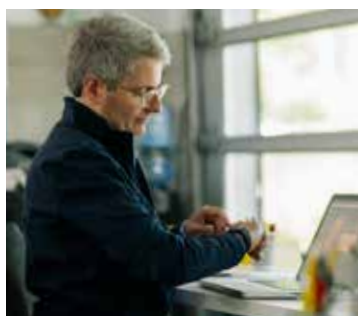


2016 Product Portfolio



Hearing Is Our Concern™

5

MUSE PRODUCTS

900SYNC TECHNOLOGY
WIRELESS INSTRUMENTS

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WIRELESS ACCESSORIES

SURFLINK AND TRULINK
WIRELESS ACCESSORIES



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Made for *life*



At Starkey Hearing Technologies, we've always focused on audibility and speech understanding first — because clarity in difficult listening environments is what patients want most.

Introducing Muse™ — our latest wireless hearing solution with Starkey's all new Synergy® platform. Synergy is the only platform to feature **quad core twin compressor technology**, and the first to provide supreme precision for audibility and the ultimate optimization for listening enjoyment.

- > [Muse feature overview](#)
- > [Muse listening environments](#)
- > [Muse feature summary](#)
- > [Muse products](#)

Feature overview

Feature	Premium i2400	Advanced i2000	Select i1600
Platform: Synergy	●	●	●
Sound Imaging: Channels Bands	24	20	16
Bandwidth: Extended 10 kHz	●	●	●
Operating System: Acuity OS	●	●	●
900 MHz Wireless Technology: 900sync	●	●	●
Wireless Streaming: Spatial Streaming	●	●	●
Speech Compression: Acuity Speech Optimization	●	▶	▶
Music Optimization: Music Enhancement	○	○	○
<i>Music Memory</i>	●	●	●
<i>Music Adaptation</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Music Adaptation</i>	●	▶	▶
Ear-to-Ear Technology: Acuity Binaural Imaging	○	○	○
<i>E2E Wind Noise Management</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Machine Noise Adaptation</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Directionality</i>	●	●	●
<i>E2E Phone Streaming</i>	●	●	●
Environment Manager: Acuity Lifescape Analyzer	○	○	○
<i>Music</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Speech</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Speech and Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Machine Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Wind</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Quiet</i>	1 2 3 4	1 2 3 4	1 2 3 4
Directional Processing: Acuity Directionality	○	○	○
<i>Channels</i>	24	20	16
<i>Dynamic</i>	●	▶	▶
<i>Directional</i>	●	▶	▶
<i>Adaptive</i>	●	▶	▶
Noise Control: Acuity Voice	○	○	○
<i>Noise Reduction Strength</i>	1 2 3 4	1 2 3 4	1 2 3 4
Feedback Management: WhistleFree Feedback Cancellation	●	●	●
Frequency Lowering: Speech Shift	●	●	●
Tinnitus Technology: Multiflex Tinnitus Technology	●	●	●
Wireless Accessory Compatibility: SurfLink Accessories	●	●	●

MUSE
900SYNC TECHNOLOGY

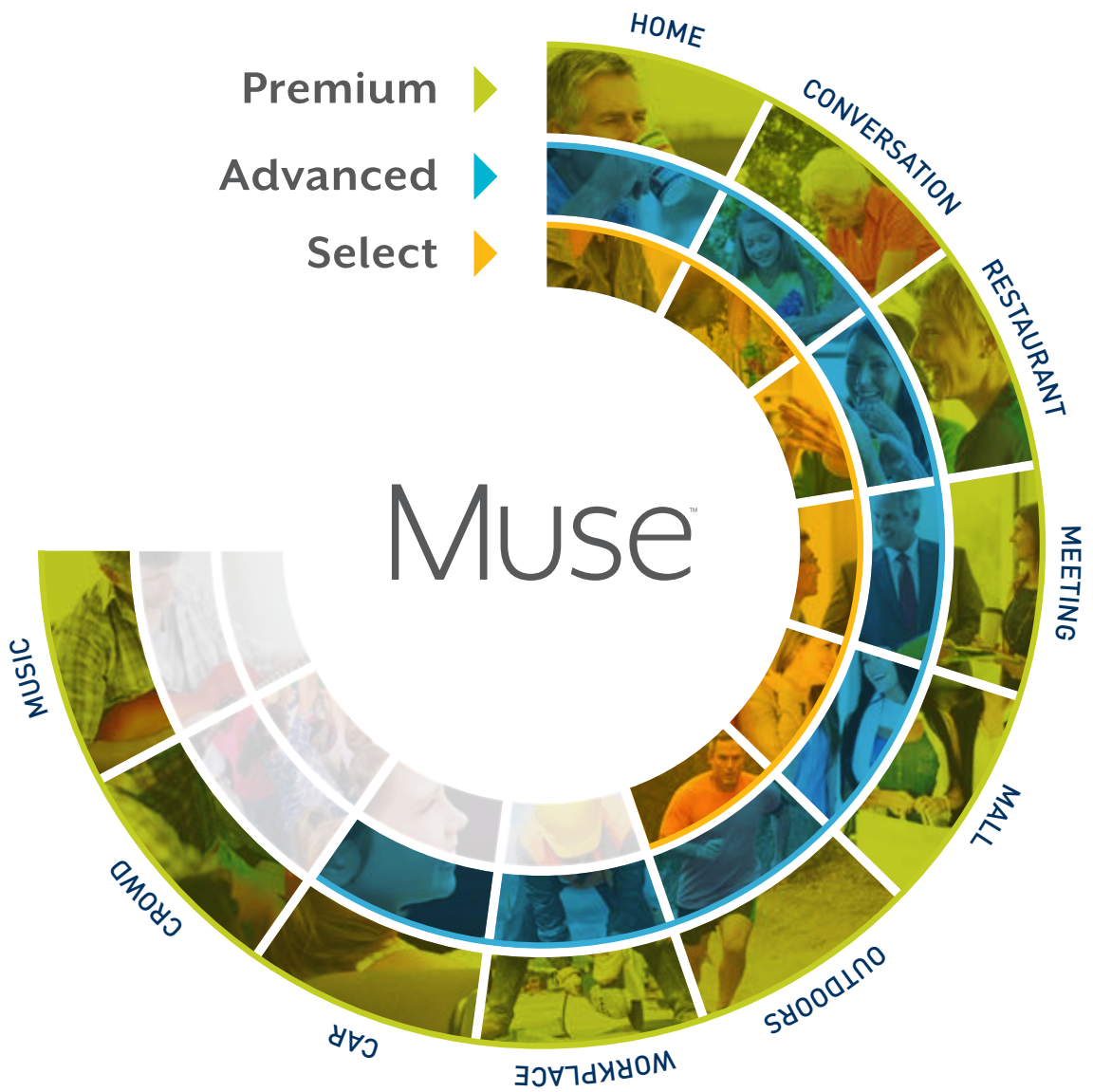
HALO 2
TRULINK TECHNOLOGY

SOUNDLENS SYNERGY
INVISIBLE INSTRUMENTS

WIRELESS ACCESSORIES
SURFLINK AND TRULINK ACCESSORIES

Muse listening environments

Our lineup of products enhances many different listening environments. What your patients need depends on their lifestyle and how active they are.



Made for the way

people hear



Acuity OS has advanced Muse hearing solutions for all patients with:

**Acuity
Binaural
Imaging**

The new standard in ear-to-ear communication

- New ultra high-definition audio brings a more natural ear-to-ear experience
- Collaborative decision making allows speech audibility to be preserved while simultaneously maintaining comfort
- Results in demonstrated, real-world benefits

**Acuity
Landscape
Analyzer**

Our most rigorously tested environmental detection system ever, designed for today's complex listening environments

- Seven automated sound classes: music, speech, speech in noise, industrial noise, wind, noise and quiet
- Handles multiple environments simultaneously

**Acuity Speech
Optimization**

Our proprietary multi-segment compression architecture combines speech audibility and overall comfort to achieve Starkey Sound™

- Extended bandwidth achieved by higher sampling rate to take full advantage of high-frequency cues
- Enhanced by more frequency adjustability across the bandwidth with expanded channel structure

**Acuity
Directionality**

Designed to improve speech detection in difficult listening situations

- Intelligent and personalized, it's a continuously adaptive, multi-channel system that uses independent null steering to preserve speech
- Uses Speech ID to prioritize conversations with up to 6dB of speech enhancement, even when it occurs behind the patient
- Is binaural and ensures optimal performance and switching
- Delivers consistent, high-fidelity sound to enhance conversation participation

Acuity Voice

Provides optimal audibility for speech

- Runs in parallel with Acuity Lifescape Analyzer
- Two-part algorithm using dynamic voice identification, coupled with spectral noise control that calculates appropriate gain on a per-channel basis
- Provides up to 20dB of noise reduction
- Instantly applies variable noise adaptation in all channels, even between each pause of speech

Music Enhancement

Provides a completely new prescription for unprecedented listening enjoyment for music

- Research conducted with professional musicians and validated by hearing aid wearers
- Focuses on music enjoyment, desired loudness and sound quality
- Makes soft music sound audible
- Restores desired loudness at high input levels
- Can be fit easily to accommodate each patient’s subjective hearing tastes
- Adapts to improve music listening sound quality automatically

Additional Benefits

Muse comes with Starkey’s best-in-class features — resulting in hearing aids your patients will want to wear every day

- **Starkey CROS system** — now, patients with CROS or BiCROS needs will be able to hear the world around them – in full, pristine sound
- **Ear-to-ear phone streaming** — made to improve phone understanding, 900sync streams the caller’s voice to both ears, making phone conversations easier than ever
- **WhistleFree Feedback Cancellation** — the only proactive feedback management system that anticipates feedback and can be personalized to product and patient
- **Speech Shift** — enhances real-time audibility by identifying high-frequency speech cues and replicating them in lower frequencies
- **Surface™ Nanoshield** — our next-generation moisture and wax repellent ensures reliability and durability
- **Multiflex Tinnitus Technology** — our patent-pending tinnitus solution is designed with personalization and flexibility in mind and is now standard in all styles and technology levels

Made for a happy, healthy life. Muse hearing aids with the new Synergy® platform are made so your patients won’t have to miss a single sound that brings them joy.

Simply put, Muse hearing aids are made for life.

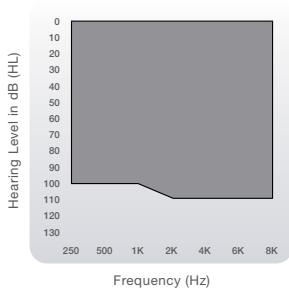
ITE

IN-THE-EAR

i2400/i2000/i1600



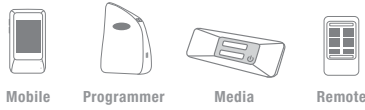
Fitting Guide



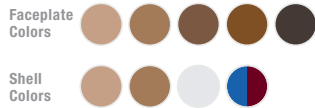
Muse ITE fitting range.

Multiflex Tinnitus Technology

Surflink Accessory Compatibility



Color Guide

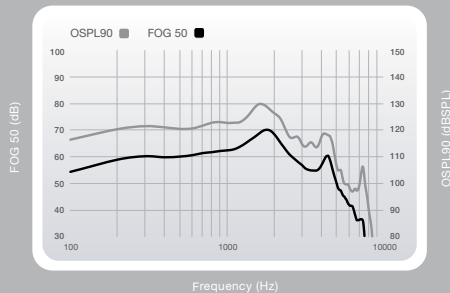


Measurement

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115-130	118-130
HFA OSPL90 (dB SPL)	109-123	N/A
RTF OSPL90 (dB SPL)	N/A	110-130
Peak Gain (dB)	50-70	54-71
HFA Full-On Gain (dB)	46-64	N/A
RTF Full-On Gain (dB)	N/A	46-68
Frequency Range (Hz)	<100-8200	<100-8900
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	32-46	35-55
Equivalent Input Noise (dB)	<25	<25
Harmonic Distortion		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3
Induction Coil Sensitivity		
HFA SPLITS (ANSI) (dB SPL)	95-108	N/A
MASL (IEC) (dB SPL)	N/A	83-106
ANSI/IEC Battery Current (mA)	1.3-1.5	1.2-1.7
Idle Current (mA)	1.2-1.3	1.2-1.3
Estimated Battery Life for 16-Hour Day		
13 Zinc Air (days)	13-16	13-16
Tinnitus Therapy Stimulus		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

▶ **Matrices** 115/50, 120/60, 130/70

▶ **Battery Size** 13



OSPL90 (gray) and Full-On Gain (black) curves for the Muse ITE at the highest matrix of 130/70.

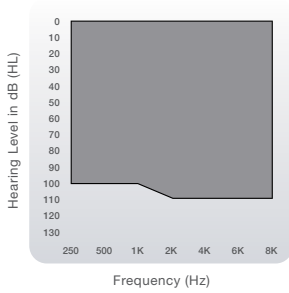
HS

HALF SHELL

i2400/i2000/i1600

HS

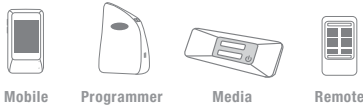
Fitting Guide



Muse HS fitting range.

Multiflex Tinnitus Technology

Surflink Accessory Compatibility



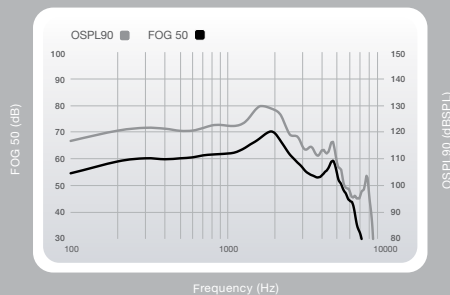
Color Guide



Measurement

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	115-130
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	106-130
Peak Gain (dB)	40-70	48-71
HFA Full-On Gain (dB)	36-64	N/A
RTF Full-On Gain (dB)	N/A	37-68
Frequency Range (Hz)	<100-9600	<100-9600
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	29-47	30-55
Equivalent Input Noise (dB)	<25	<25
Harmonic Distortion		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3
Induction Coil Sensitivity		
HFA SPLITS (ANSI) (dB SPL)	89-108	N/A
MASL (IEC) (dB SPL)	N/A	71-105
ANSI/IEC Battery Current (mA)	1.3-1.5	1.3-1.6
Idle Current (mA)	1.2-1.3	1.2-1.3
Estimated Battery Life for 16-Hour Day		
312 Zinc Air (days)	7-10	7-10
Tinnitus Therapy Stimulus		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

- ▶ **Matrices** 110/40, 115/50, 120/60, 130/70
- ▶ **Battery Size** 312



OSPL90 (gray) and Full-On Gain (black) curves for the Muse HS at the highest matrix of 130/70.

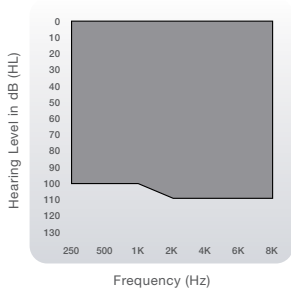
ITC

IN-THE-CANAL

i2400/i2000/i1600



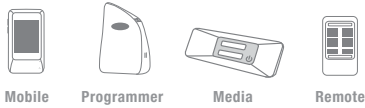
Fitting Guide



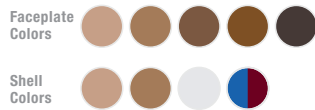
Muse ITC fitting range.

Multiflex Tinnitus Technology

Surflink Accessory Compatibility



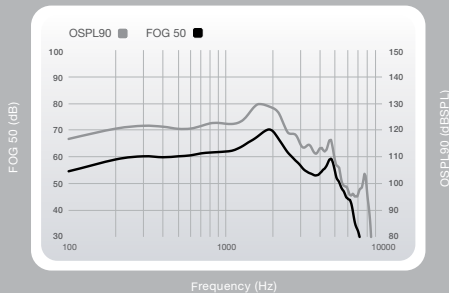
Color Guide



Measurement

	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	115-130
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	106-130
Peak Gain (dB)	40-70	48-71
HFA Full-On Gain (dB)	36-64	N/A
RTF Full-On Gain (dB)	N/A	37-68
Frequency Range (Hz)	<100-9600	<100-9600
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	29-47	30-55
Equivalent Input Noise (dB)	<25	<25
Harmonic Distortion		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3
Induction Coil Sensitivity		
HFA SPLITS (ANSI) (dB SPL)	89-108	N/A
MASL (IEC) (dB SPL)	N/A	71-105
ANSI/IEC Battery Current (mA)	1.3-1.5	1.3-1.6
Idle Current (mA)	1.2-1.3	1.2-1.3
Estimated Battery Life for 16-Hour Day		
312 Zinc Air (days)	7-10	7-10
Tinnitus Therapy Stimulus		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

- ▶ **Matrices** 110/40, 115/50, 120/60, 130/70
- ▶ **Battery Size** 312



OSPL90 (gray) and Full-On Gain (black) curves for the Muse ITC at the highest matrix of 130/70.

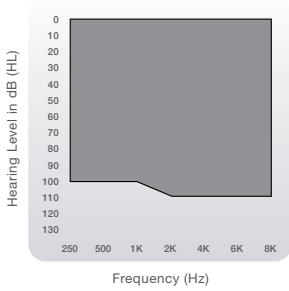
CIC

COMPLETELY-IN-CANAL

i2400/i2000/i1600

CIC

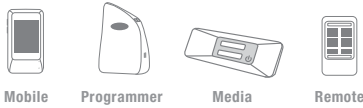
Fitting Guide



Muse CIC fitting range.

Multiflex Tinnitus Technology

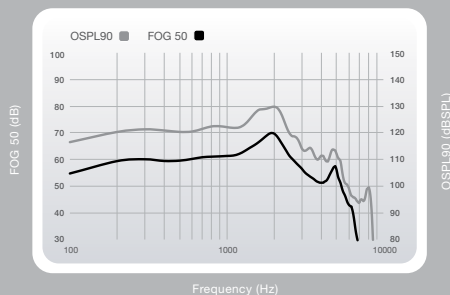
Surflink Accessory Compatibility



Color Guide



Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110-130	118-130
HFA OSPL90 (dB SPL)	106-124	N/A
RTF OSPL90 (dB SPL)	N/A	110-130
Peak Gain (dB)	40-70	51-71
HFA Full-On Gain (dB)	36-63	N/A
RTF Full-On Gain (dB)	N/A	44-68
Frequency Range (Hz)		
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	29-47	35-55
Equivalent Input Noise (dB)	<25	<25
Harmonic Distortion		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3
ANSI/IEC Battery Current (mA)	1.2-1.5	1.2-1.5
Idle Current (mA)	1.2-1.3	1.2-1.3
Estimated Battery Life for 16-Hour Day		
312 Zinc Air (days)	7-10	7-10
10 Zinc Air (days)	4-7	4-7
Tinnitus Therapy Stimulus		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	
Matrices	110/40, 115/50, 120/60, 130/70	
Battery Size	312, 10	



OSPL90 (gray) and Full-On Gain (black) curves for the Muse CIC at the highest matrix of 130/70.

MICRO RIC 312t

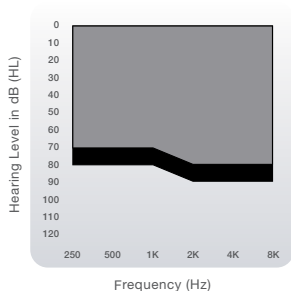
RECEIVER-IN-CANAL

i2400/i2000/i1600

50 Gain Data

60 Gain Data

Fitting Guide



Muse micro RIC 312t 50 (gray) and Muse micro RIC 312t 60 (black) fitting ranges.

Multiflex Tinnitus Technology

CROS/BiCROS Compatibility

Surflink Accessory Compatibility



Color Guide

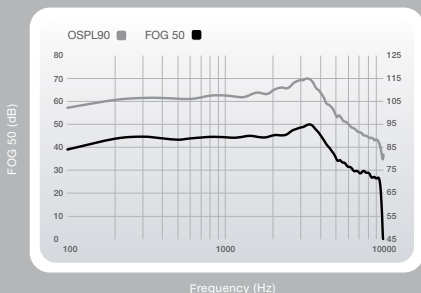


Measurement

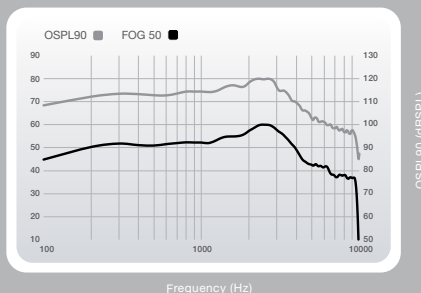
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115	127	120	131
HFA OSPL90 (dB SPL)	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	119	N/A	127
Peak Gain (dB)	50	63	60	71
HFA Full-On Gain (dB)	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	55	N/A	65
Frequency Range (Hz)	<100-9600	<100-9600	<100-9200	<100-9600
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	32	44	40	52
Equivalent Input Noise (dB)	26	26	26	26
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)	92	N/A	100	N/A
MASL (IEC) (dB SPL)	N/A	85	N/A	95
ANSI/IEC Battery Current (mA)	1.7	1.5	1.9	1.7
Idle Current (mA)	1.4	1.4	1.5	1.5
Estimated Battery Life for 16-Hour Day				
312 Zinc Air (days)	6-8	6-8	5-7	5-7
Tinnitus Therapy Stimulus				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

▶ **Matrices** 115/50, 120/60

▶ **Battery Size** 312



OSPL90 (gray) and Full-On Gain (black) curves for the Muse micro RIC 312t at 115/50.



OSPL90 (gray) and Full-On Gain (black) curves for the Muse micro RIC 312t at 120/60.

MICRO RIC 312t AP

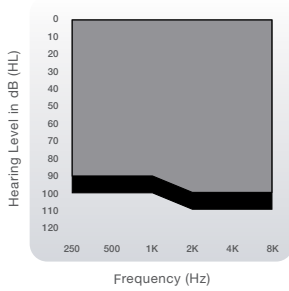
RECEIVER-IN-CANAL ABSOLUTE POWER

i2400/i2000/i1600

60 AP Gain Data

70 AP Gain Data

Fitting Guide

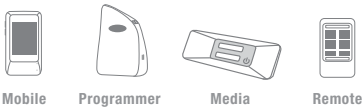


Muse micro RIC 312t AP 60 (gray) and Muse micro RIC 312t AP 70 (black) fitting ranges.

Multiflex Tinnitus Technology

CROS/BiCROS Compatibility

Surmlink Accessory Compatibility



Color Guide

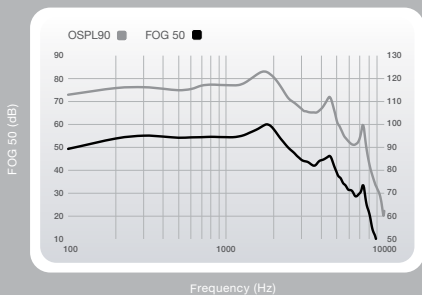


Measurement

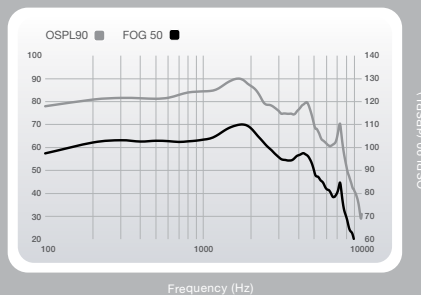
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	123	133	130	140
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
Frequency Range (Hz)	<100-5500	<100-5700	<100-5800	<100-5700
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
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)	100	N/A	107	N/A
MASL (IEC) (dB SPL)	N/A	95	N/A	107
ANSI/IEC Battery Current (mA)	1.4	1.4	1.9	1.5
Idle Current (mA)	1.4	1.3	1.5	1.4
Estimated Battery Life for 16-Hour Day				
312 Zinc Air (days)	6-8	6-8	5-7	5-7
Tinnitus Therapy Stimulus				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

▶ **Matrices** 123/60, 130/70

▶ **Battery Size** 312



OSPL90 (gray) and Full-On Gain (black) curves for the Muse micro RIC 312t AP at 123/60.



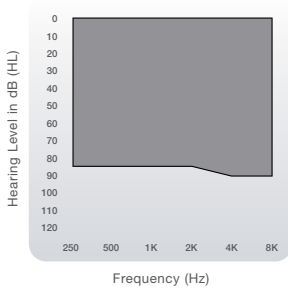
OSPL90 (gray) and Full-On Gain (black) curves for the Muse micro RIC 312t AP at 130/70.

MINI BTE 312

BEHIND-THE-EAR

i2400/i2000/i1600

Fitting Guide

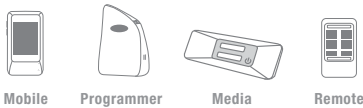


Muse mini BTE 312 fitting range.

Multiflex Tinnitus Technology

CROS/BiCROS Compatibility

Surflink Accessory Compatibility



Color Guide



EARHOOK

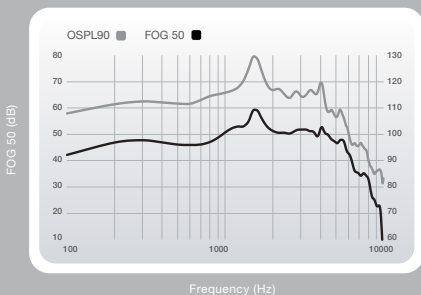
THIN TUBE (Size 3, Occluded)

Measurement

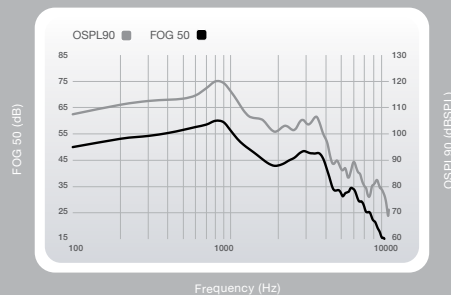
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	130	136	120	126
HFA OSPL90 (dB SPL)	117	N/A	108	N/A
RTF OSPL90 (dB SPL)	N/A	121	N/A	112
Peak Gain (dB)	60	66	60	66
HFA Full-On Gain (dB)	51	N/A	49	N/A
RTF Full-On Gain (dB)	N/A	57	N/A	57
Frequency Range (Hz)	<100-8100	<100-8600	<100-6800	<100-7700
Reference Test Freq. (kHz)	N/A	2.5	N/A	2.5
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	46	31	37
Equivalent Input Noise (dB)	25	25	32	32
Harmonic Distortion				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<5	<5	<3	<3
1600 Hz (%)	<3	<3	<3	<3
Induction Coil Sensitivity				
HFA SPLITS (ANSI) (dB SPL)	100	N/A	90	N/A
MASL (IEC) (dB SPL)	N/A	87	N/A	86
ANSI/IEC Battery Current (mA)	1.5	1.4	1.4	1.4
Idle Current (mA)	1.3	1.3	1.3	1.3
Estimated Battery Life for 16-Hour Day				
312 Zinc Air (days)	7-9	7-9	7-9	7-9
Tinnitus Therapy Stimulus				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

▶ **Matrix** 130/60

▶ **Battery Size** 312



OSPL90 (gray) and Full-On Gain (black) curves for the Muse mini BTE 312 with Earhook.



OSPL90 (gray) and Full-On Gain (black) curves for the Muse mini BTE 312 with Thin Tube.

CROS SYSTEM

MUSE MICRO RIC 312
& MUSE MINI BTE 312

i2400/i2000/i1600



The Starkey CROS system includes products specifically designed for patients who need sound routed to a better hearing ear. Starkey's CROS solution transmits sound wirelessly from a microphone placed on a patient's non-functional ear to a receiver fitted on a patient's better hearing ear. Devices can also be configured as a BiCROS solution for patients who need amplification in their better hearing ear.

Special Features

- Clear and consistent wireless streaming using 900sync™ Technology
- Acuity™ OS brings audibility and speech understanding to patients in any environment
- Full Adaptive Directional functionality on the CROS Transmitter
- Compatible with Muse micro RIC 312 and mini BTE 312 hearing aids
- Telecoil standard in Muse micro RIC 312 and mini BTE 312
- Compatible with SurfLink® accessories

General Information

Transportation and storage conditions:

-40°C (-40°F) to +60°C (140°F) and 10%-95% rH. Your hearing instruments are designed to operate beyond the range of temperatures comfortable to you, from very cold up to 50°C (122°F).

Safety Standards:

Meets IEC 60601-2-66 safety standard and EN 301 489-9 EMC standard.

Compatibility

Muse micro RIC 312 CROS is compatible with Muse micro RIC 312t

Muse mini BTE 312 CROS is compatible with Muse mini BTE 312

Battery Information

Model	Battery size	IEC code	ANSI code
Muse micro RIC 312 CROS	312	PR41	7002ZD
Muse mini BTE 312 CROS	312	PR41	7002ZD

Audio Information

Audio Quality: 20 kHz sampling frequency

Audio bandwidth: 4 kHz

Radio Information

Antenna type: Integral Dual Parallel Loop Antenna

Operation frequency: 902-928 MHz

Occupied bandwidth (99% BW): 300 kHz

Modulation: FSK

Channels: 922.055 MHz, 915.683 MHz

Operating range: 1 m

Wearing options: Receiver-in-Canal and Behind-the-Ear

Use case: Streaming of audio signal to receiving hearing aid on the other ear

Transmit Power: micro RIC 312: -22 dBm
mini BTE 312: -23 dBm

Standards Applied

USA	Muse micro RIC 312 CROS	Muse mini BTE 312 CROS
	Part 15.249 FCC ID: EOA-EXPSTANDARD	Part 15.249 FCC ID: EOA-EXPSTANDARD

Made for *you*

Halo 2



At Starkey Hearing Technologies, we believe that to hear better, is to live better. With Halo™ 2, our latest Made for iPhone® hearing aids, we can help your patients stay connected to the people and things they love most.

Halo 2 combines Starkey's state-of-the-art technology with the world's most popular smartphone — iPhone. It was engineered from the ground up to make hearing easier and more enjoyable for your patients. With supreme sound quality and premium features, Halo 2 is customizable to fit your patients unique hearing needs and enhance all of their listening experiences.

- › Halo 2 feature overview
- › Halo 2 listening environments
- › Halo 2 feature summary
- › Halo 2 products

The TruLink™ Hearing Control app is also available for select Android phones. For Android compatibility information, visit trulinkhearing.com.

Feature overview

Feature	Premium i2400	Advanced i2000	Select i1600
Platform: Synergy	●	●	●
Sound Imaging: Channels Bands	24	20	16
Bandwidth: Extended 10 kHz	●	●	●
Operating System: Acuity OS	●	●	●
2.4 GHz Wireless Technology: TruLink	●	●	●
Wireless Streaming: Pristine Audio Streaming	●	●	●
Speech Compression: Acuity Speech Optimization	●	▶	▶
Music Optimization: Music Enhancement	●	●	●
<i>Music Memory</i>	●	●	●
<i>Music Adaptation</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Music Adaptation</i>	●	▶	▶
Ear-to-Ear Technology: Acuity Binaural Imaging	●	●	●
<i>E2E Wind Noise Management</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Machine Noise Adaptation</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Directionality</i>	●	●	●
Environment Manager: Acuity Lifescape Analyzer	●	●	●
<i>Music</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Speech</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Speech and Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Machine Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Wind</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Quiet</i>	1 2 3 4	1 2 3 4	1 2 3 4
Directional Processing: Acuity Directionality	●	●	●
<i>Channels</i>	24	20	16
<i>Dynamic</i>	●	▶	▶
<i>Directional</i>	●	▶	▶
<i>Adaptive</i>	●	▶	▶
Noise Control: Acuity Voice	●	●	●
<i>Noise Reduction Strength</i>	1 2 3 4	1 2 3 4	1 2 3 4
Feedback Management: WhistleFree Feedback Cancellation	●	●	●
Frequency Lowering: Speech Shift	●	●	●
Tinnitus Technology: Multiflex Tinnitus Technology	●	●	●
Wireless Accessory Compatibility: TruLink Hearing Control App	●	●	●

MUSE
900SYNC TECHNOLOGY

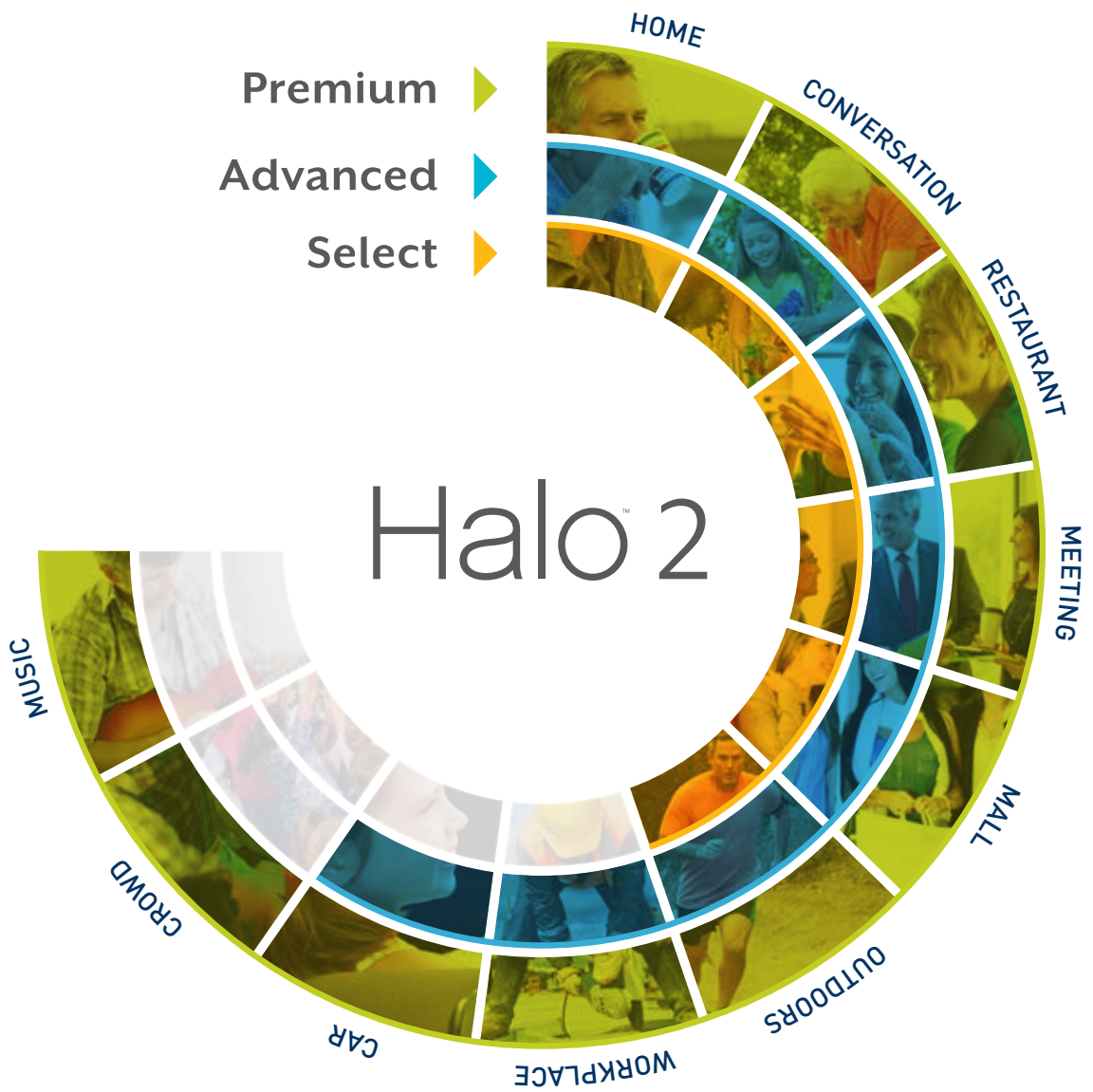
HALO 2
TRULINK TECHNOLOGY

SOUNDLENS SYNERGY
INVISIBLE INSTRUMENTS

WIRELESS ACCESSORIES
SURFLINK AND TRULINK ACCESSORIES

Halo 2 listening environments

Our lineup of products enhances many different listening environments. What your patients need depends on their lifestyle and how active they are.



Made for

connectivity



Acuity OS has advanced Halo 2 hearing solutions for all patients with:

**Acuity
Binaural
Imaging**

The new standard in ear-to-ear communication

- New ultra high-definition audio brings a more natural ear-to-ear experience
- Collaborative decision making allows speech audibility to be preserved while simultaneously maintaining comfort
- Results in demonstrated, real-world benefits

**Acuity
Lifescape
Analyzer**

Our most rigorously tested environmental detection system ever, designed for today's complex listening environments

- Seven automated sound classes: music, speech, speech in noise, industrial noise, wind, noise and quiet
- Handles multiple environments simultaneously

**Acuity Speech
Optimization**

Our proprietary multi-segment compression architecture combines speech audibility and overall comfort to achieve Starkey Sound

- Extended bandwidth achieved by higher sampling rate to take full advantage of high-frequency cues
- Enhanced by more frequency adjustability across the bandwidth with expanded channel structure

**Acuity
Directionality**

Designed to improve speech detection in difficult listening situations

- Intelligent and personalized, it's a continuously adaptive, multi-channel system that uses independent null steering to preserve speech
- Uses Speech ID to prioritize conversations with up to 6dB of speech enhancement, even when it occurs behind the patient
- Is binaural and ensures optimal performance and switching
- Delivers consistent, high-fidelity sound to enhance conversation participation

Acuity Voice

Provides optimal audibility for speech

- Runs in parallel with Acuity Lifescape Analyzer
- Two-part algorithm using dynamic voice identification, coupled with spectral noise control that calculates appropriate gain on a per-channel basis
- Provides up to 20dB of noise reduction
- Instantly applies variable noise adaptation in all channels, even between each pause of speech

Music Enhancement

Provides a completely new prescription for unprecedented listening enjoyment for music

- Research conducted with professional musicians and validated by hearing aid wearers
- Focuses on music enjoyment, desired loudness and sound quality
- Makes soft music sound audible
- Restores desired loudness at high input levels
- Can be fit easily to accommodate each patient’s subjective hearing tastes
- Adapts to improve music listening sound quality automatically

Additional Benefits

Halo 2 comes with Starkey’s best-in-class features—resulting in hearing aids your patients will want to wear every day

- **WhistleFree Feedback Cancellation** — the only proactive feedback management system that anticipates feedback and can be personalized to product and patient
- **Speech Shift** — enhances real-time audibility by identifying high-frequency speech cues and replicating them in lower frequencies
- **Surface Nanoshield** — our next-generation moisture and wax repellent ensures reliability and durability
- **Multiflex Tinnitus Technology** — our patent-pending tinnitus solution is designed with personalization and flexibility in mind and is now standard in all styles and technology levels

Made for iPhone. Made for you. Halo 2 hearing aids with the new Synergy platform are made so your patients won’t have to miss a single sound that brings them joy.

Simply put, Halo 2 hearing aids are made for life.

RIC 13

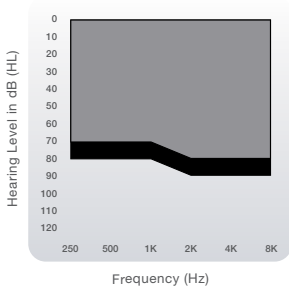
RECEIVER-IN-CANAL

i2400/i2000/i1600

50 Gain Data

60 Gain Data

Fitting Guide



Halo 2 RIC 13 50 (gray) and Halo 2 RIC 13 60 (black) fitting ranges.

Multiflex Tinnitus Technology

TruLink Accessory Compatibility

Compatibility: For the most up-to-date compatibility information, visit trulinkhearing.com



Color Guide



*Results will vary based on wireless usage.

Measurement

Measurement	50 Gain Data		60 Gain Data	
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115	127	120	131
HFA OSPL90 (dB SPL)	109	N/A	117	N/A
RTF OSPL90 (dB SPL)	N/A	119	N/A	127
Peak Gain (dB)	50	63	60	71
HFA Full-On Gain (dB)	45	N/A	56	N/A
RTF Full-On Gain (dB)	N/A	55	N/A	65

Frequency Range (Hz)

Measurement	50 Gain Data	60 Gain Data
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	32	44
Equivalent Input Noise (dB)	26	26

Harmonic Distortion

Measurement	50 Gain Data	60 Gain Data
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

Induction Coil Sensitivity

Measurement	50 Gain Data	60 Gain Data
HFA SPLITS (ANSI) (dB SPL)	92	N/A
MASL (IEC) (dB SPL)	N/A	85

ANSI/IEC Battery Current (mA)

Measurement	50 Gain Data	60 Gain Data
Battery Current (mA)	1.9*	1.9*
Idle Current (mA)	1.6*	1.6*

Estimated Battery Life for 16-Hour Day

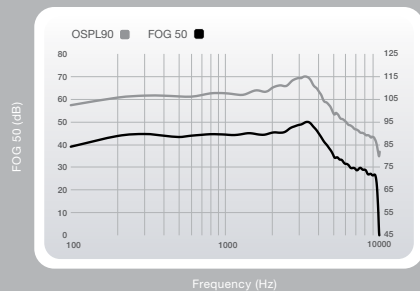
Measurement	50 Gain Data	60 Gain Data
13 Zinc Air (days)	7-11*	7-11*

Tinnitus Therapy Stimulus

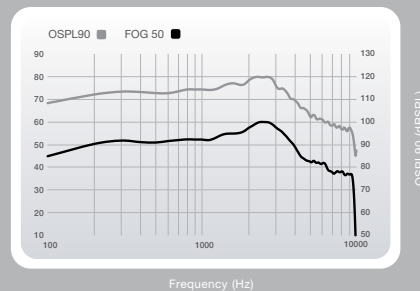
Measurement	50 Gain Data	60 Gain Data
Max RMS Output (dB SPL)	87	87
Weighted RMS Output Level (dB SPL)	87	87
Max 1/3 Octave Output (dB SPL)	87	87

▶ **Matrices** 115/50, 120/60

▶ **Battery Size** 13



OSPL90 (gray) and Full-On Gain (black) curves for the Halo 2 RIC 13 at 115/50.



OSPL90 (gray) and Full-On Gain (black) curves for the Halo 2 RIC 13 at 120/60.

RIC 13 AP

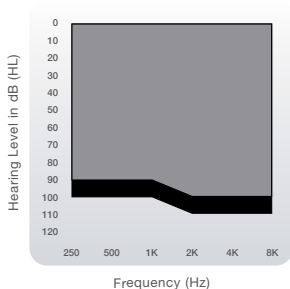
RECEIVER-IN-CANAL ABSOLUTE POWER

i2400/i2000/i1600

60 AP Gain Data

70 AP Gain Data

Fitting Guide



Halo 2 RIC 13 AP 60 (gray) and Halo 2 RIC 13 AP 70 (black) fitting ranges.

Multiflex Tinnitus Technology

TruLink Accessory Compatibility

Compatibility: For the most up-to-date compatibility information, visit trulinkhearing.com



Color Guide

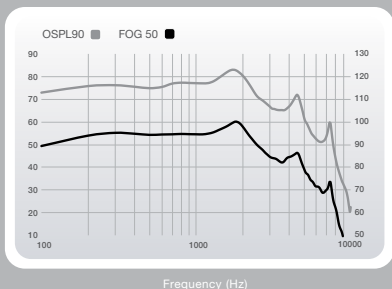


*Results will vary based on wireless usage.

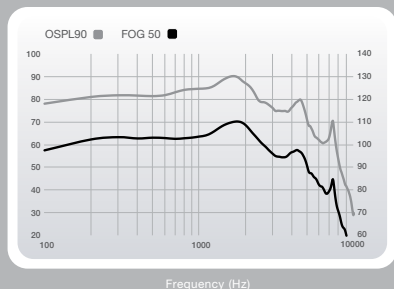
Measurement

Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
	Peak OSPL90 (dB SPL)	123	133	130
HFA OSPL90 (dB SPL)	117	N/A	124	N/A
RTF OSPL90 (dB SPL)	N/A	130	N/A	139
Peak Gain (dB)	60	70	70	81
HFA Full-On Gain (dB)	54	N/A	65	N/A
RTF Full-On Gain (dB)	N/A	66	N/A	78
Frequency Range (Hz)	<100-5500	<100-5700	<100-5800	<100-5700
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	40	55	47	64
Equivalent Input Noise (dB)	26	26	26	26
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)	100	N/A	107	N/A
MASL (IEC) (dB SPL)	N/A	95	N/A	107
ANSI/IEC Battery Current (mA)	1.8*	1.8*	2.2*	2.2*
Idle Current (mA)	1.5*	1.5*	2.0*	2.0*
Estimated Battery Life for 16-Hour Day				
13 Zinc Air (days)	8-12*	8-12*	5-9*	5-9*
Tinnitus Therapy Stimulus				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

- ▶ **Matrices** 123/60, 130/70
- ▶ **Battery Size** 13



OSPL90 (gray) and Full-On Gain (black) curves for the Halo 2 RIC 13 AP at 123/60.



OSPL90 (gray) and Full-On Gain (black) curves for the Halo 2 RIC 13 AP at 130/70.

Made for an

invisible fit

SoundLens® [Synergy®]



When it comes to wanting the world's smallest, most comfortable hearing aids, practitioners and patients everywhere turn to SoundLens® Synergy from Starkey Hearing Technologies – now available in both wireless and non-wireless options.

Now that SoundLens Synergy is available in a wireless solution, patients can receive a direct wireless connection between their phone – or any other Bluetooth® device – and their hearing aids. Even though these instruments are packaged in a tiny container, they are loaded with advanced features, including the ability to stream TV, music and more.

- › SoundLens Synergy feature overview
- › SoundLens Synergy listening environments
- › SoundLens Synergy feature summary
- › SoundLens Synergy products

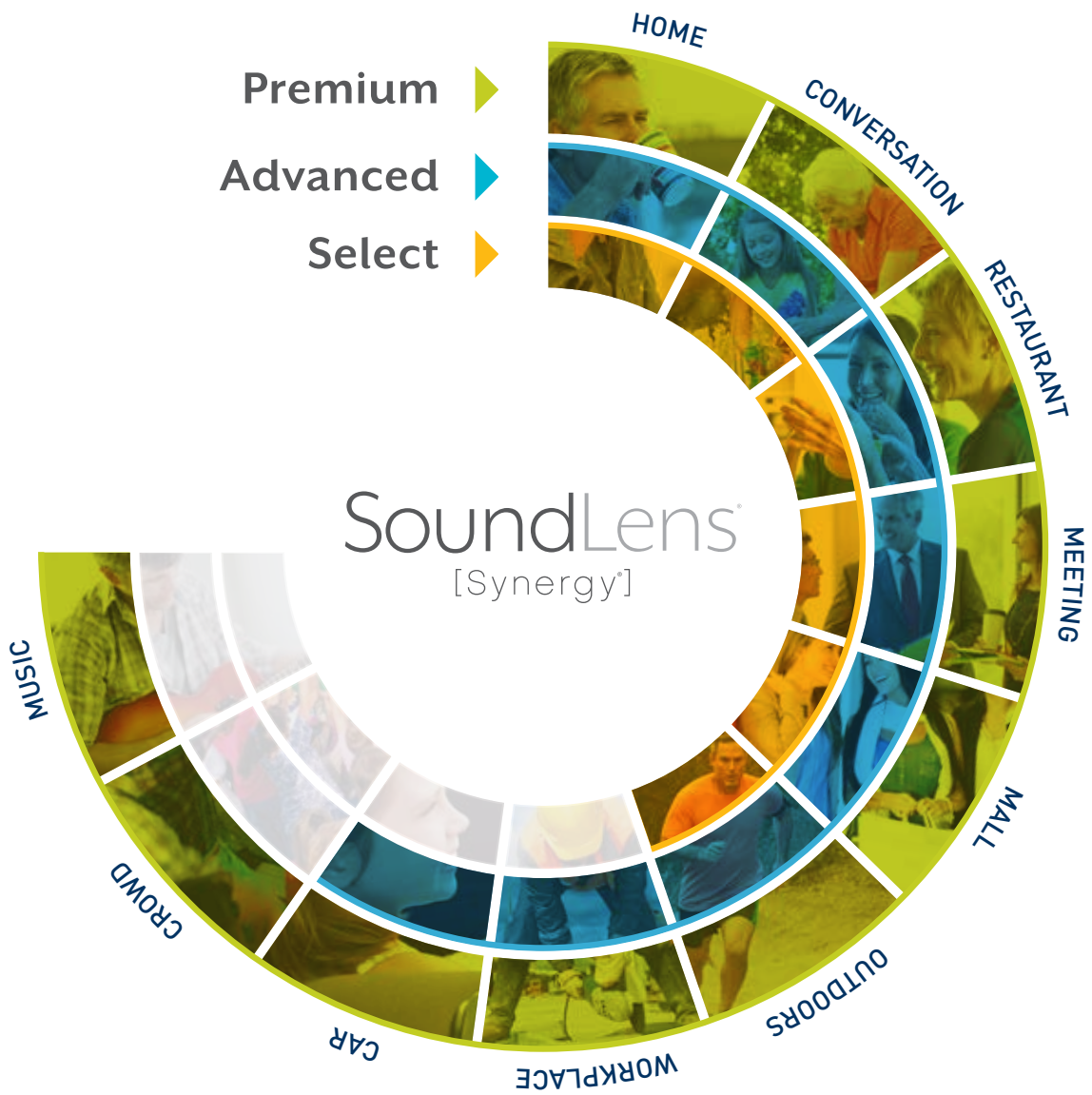
Feature overview

Feature	Premium i2400 / 2400	Advanced 2000	Select 1600
	<i>Wireless/ Non-wireless</i>	<i>Non-wireless only</i>	<i>Non-wireless only</i>
Platform: Synergy	●	●	●
Sound Imaging: Channels Bands	24	20	16
Bandwidth: Extended 10 kHz	●	●	●
Operating System: Acuity OS	●	●	●
900 MHz Wireless Technology*: 900sync	●	N/A	N/A
Wireless Streaming*: Spatial Streaming	●	N/A	N/A
Speech Compression: Acuity Speech Optimization	●	▶	▶
Music Optimization: Music Enhancement	○	○	○
<i>Music Memory</i>	●	●	●
<i>Music Adaptation</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Music Adaptation</i>	●	▶	▶
Ear-to-Ear Technology: Acuity Binaural Imaging	○	○	○
<i>E2E Wind Noise Management</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Machine Noise Adaptation</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>E2E Directionality</i>	●	●	●
<i>E2E Phone Streaming*</i>	●	N/A	N/A
Environment Manager: Acuity Lifescape Analyzer	○	○	○
<i>Music</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Speech</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Speech and Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Machine Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Wind</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Noise</i>	1 2 3 4	1 2 3 4	1 2 3 4
<i>Quiet</i>	1 2 3 4	1 2 3 4	1 2 3 4
Directional Processing: Acuity Directionality	○	○	○
<i>Channels</i>	24	20	16
<i>Dynamic</i>	●	▶	▶
<i>Directional</i>	●	▶	▶
<i>Adaptive</i>	●	▶	▶
Noise Control: Acuity Voice	○	○	○
<i>Noise Reduction Strength</i>	1 2 3 4	1 2 3 4	1 2 3 4
Feedback Management: WhistleFree Feedback Cancellation	●	●	●
Frequency Lowering: Speech Shift	●	●	●
Tinnitus Technology: Multiflex Tinnitus Technology	●	●	●
Wireless Accessory Compatibility*: SurfLink Accessories	●	N/A	N/A

*Only available on i2400 wireless IIC product

SoundLens Synergy listening environments

Our lineup of products enhances many different listening environments. What your patients need depends on their lifestyle and how active they are.



Made to deliver

Starkey Sound



Acuity OS has advanced SoundLens Synergy hearing solutions for all patients with:

**Acuity
Binaural
Imaging**

The new standard in ear-to-ear communication

- New ultra high-definition audio brings a more natural ear-to-ear experience
- Collaborative decision making allows speech audibility to be preserved while simultaneously maintaining comfort
- Results in demonstrated, real-world benefits

**Acuity
Lifescape
Analyzer**

Our most rigorously tested environmental detection system ever, designed for today's complex listening environments

- Seven automated sound classes: music, speech, speech in noise, industrial noise, wind, noise and quiet
- Handles multiple environments simultaneously

**Acuity Speech
Optimization**

Our proprietary multi-segment compression architecture combines speech audibility and overall comfort to achieve Starkey Sound

- Extended bandwidth achieved by higher sampling rate to take full advantage of high-frequency cues
- Enhanced by more frequency adjustability across the bandwidth with expanded channel structure

**Acuity
Directionality**

Designed to improve speech detection in difficult listening situations

- Intelligent and personalized, it's a continuously adaptive, multi-channel system that uses independent null steering to preserve speech
- Uses Speech ID to prioritize conversations with up to 6dB of speech enhancement, even when it occurs behind the patient
- Is binaural and ensures optimal performance and switching
- Delivers consistent, high-fidelity sound to enhance conversation participation

- Acuity Voice**
- Provides optimal audibility for speech**
- Runs in parallel with Acuity Lifescape Analyzer
 - Two-part algorithm using dynamic voice identification, coupled with spectral noise control that calculates appropriate gain on a per-channel basis
 - Provides up to 20dB of noise reduction
 - Instantly applies variable noise adaptation in all channels, even between each pause of speech

- Music Enhancement**
- Provides a completely new prescription for unprecedented listening enjoyment for music**
- Research conducted with professional musicians and validated by hearing aid wearers
 - Focuses on music enjoyment, desired loudness and sound quality
 - Makes soft music sound audible
 - Restores desired loudness at high input levels
 - Can be fit easily to accommodate each patient’s subjective hearing tastes
 - Adapts to improve music listening sound quality automatically

- Additional Benefits**
- SoundLens Synergy comes with Starkey’s best-in-class features—resulting in hearing aids your patients will want to wear every day**
- **Ear-to-ear phone streaming*** — Made to improve phone understanding, 900sync streams the caller’s voice to both ears, making phone conversations easier than ever
 - **WhistleFree Feedback Cancellation** — the only proactive feedback management system that anticipates feedback and can be personalized to product and patient
 - **Speech Shift** — enhances real-time audibility by identifying high-frequency speech cues and replicating them in lower frequencies
 - **Surface Nanoshield** — our next-generation moisture and wax repellent ensures reliability and durability
 - **Multiflex Tinnitus Technology** — our patent-pending tinnitus solution is designed with personalization and flexibility in mind and is now standard in all styles and technology levels

*only available on i2400 wireless IIC

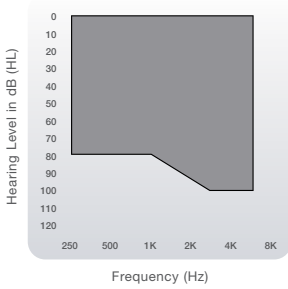
Invisible. Wireless. Powerful. SoundLens Synergy hearing aids with the new Synergy platform are packed with Starkey’s innovative technologies that fit completely out of sight.

No matter their lifestyle, SoundLens Synergy hearing aids are made for the way your patients live.

IIC INVISIBLE-IN-THE-CANAL

i2400

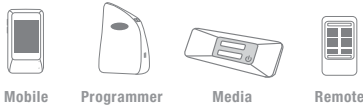
Fitting Guide



SoundLens Synergy IIC fitting range.

Multiflex Tinnitus Technology

Surflink Accessory Compatibility



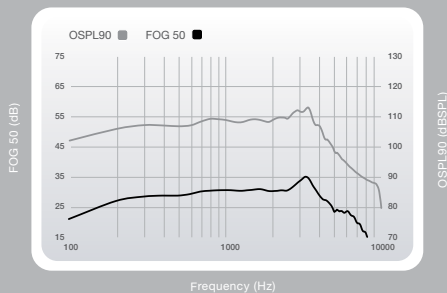
Color Guide



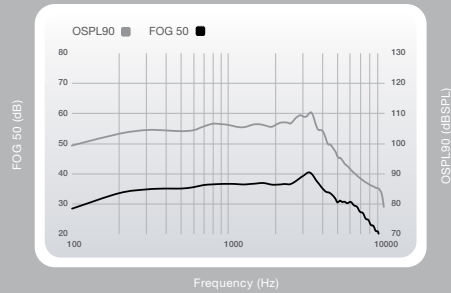
	110/35		110/40	
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Measurement	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110	120	110	120
HFA OSPL90 (dB SPL)	106	N/A	106	N/A
RTF OSPL90 (dB SPL)	N/A	114	N/A	114
Peak Gain (dB)	35	45	40	51
HFA Full-On Gain (dB)	30	N/A	36	N/A
RTF Full-On Gain (dB)	N/A	39	N/A	44
Frequency Range (Hz)	<100-9400	<100-9700	<100-9400	<100-9700
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	29	32	29	37
Equivalent Input Noise (dB)	<25	<25	<25	<25
Harmonic Distortion				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3
ANSI/IEC Battery Current (mA)	1.2	1.2	1.2	1.2
Idle Current (mA)	1.2	1.2	1.2	1.2
Estimated Battery Life for 16-Hour Day				
10 Zinc Air (days)	4-7	4-7	4-7	4-7
Tinnitus Therapy Stimulus				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

- ▶ **Matrices** 110/35, 110/40, 115/50
- ▶ **Battery Size** 10



OSPL90 (gray) and Full-On Gain (black) curves for the SoundLens Synergy IIC at a matrix of 110/35.



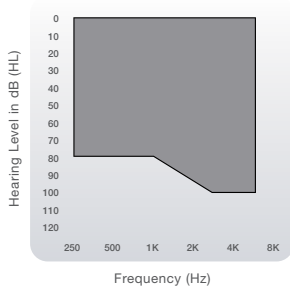
OSPL90 (gray) and Full-On Gain (black) curves for the SoundLens Synergy IIC at a matrix of 110/40.

i2400

115/50

IIC
INVISIBLE-IN-THE-CANAL

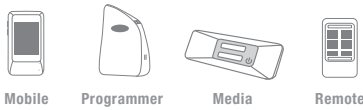
Fitting Guide



SoundLens Synergy IIC fitting range.

Multiflex Tinnitus Technology

Surflink Accessory Compatibility



Color Guide

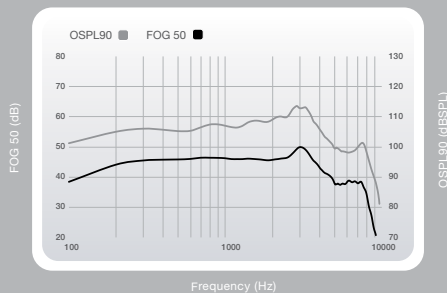


Measurement

	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115	118
HFA OSPL90 (dB SPL)	109	N/A
RTF OSPL90 (dB SPL)	N/A	110
Peak Gain (dB)	50	54
HFA Full-On Gain (dB)	46	N/A
RTF Full-On Gain (dB)	N/A	46
Frequency Range (Hz)	<100-8500	<200-8900
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	32	35
Equivalent Input Noise (dB)	<25	<25
Harmonic Distortion		
500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3
ANSI/IEC Battery Current (mA)	1.4	1.3
Idle Current (mA)	1.2	1.2
Estimated Battery Life for 16-Hour Day		
10 Zinc Air (days)	4-7	4-7
Tinnitus Therapy Stimulus		
Max RMS Output (dB SPL)	87	
Weighted RMS Output Level (dB SPL)	87	
Max 1/3 Octave Output (dB SPL)	87	

▶ **Matrices** 110/35, 110/40, 115/50

▶ **Battery Size** 10



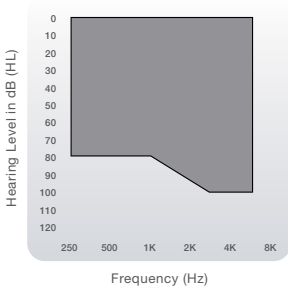
OSPL90 (gray) and Full-On Gain (black) curves for the SoundLens Synergy IIC at a matrix of 115/50.

IIC

INVISIBLE-IN-THE-CANAL

2400/2000/1600

Fitting Guide



SoundLens Synergy IIC fitting range.

Multiflex Tinnitus Technology

Color Guide



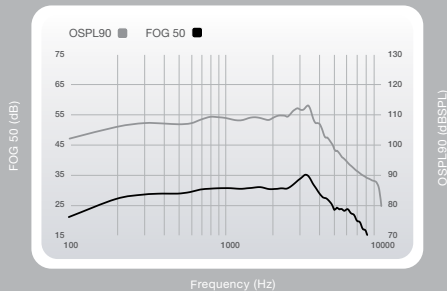
110/35 110/40

Measurement

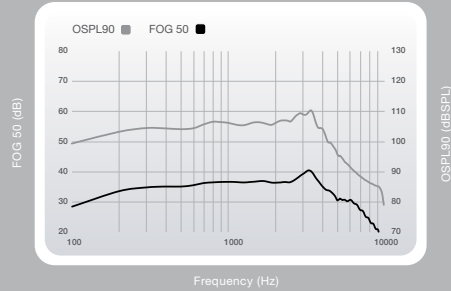
	ANSI/IEC 2cc Coupler	IEC OES Coupler	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	110	120	110	120
HFA OSPL90 (dB SPL)	106	N/A	106	N/A
RTF OSPL90 (dB SPL)	N/A	114	N/A	114
Peak Gain (dB)	35	45	40	51
HFA Full-On Gain (dB)	30	N/A	36	N/A
RTF Full-On Gain (dB)	N/A	39	N/A	44
Frequency Range (Hz)	<100-9400	<100-9700	<100-9400	<100-9700
Reference Test Freq. (kHz)	N/A	1.6	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	29	32	29	37
Equivalent Input Noise (dB)	<25	<25	<25	<25
Harmonic Distortion				
500 Hz (%)	<3	<3	<3	<3
800 Hz (%)	<3	<3	<3	<3
1600 Hz (%)	<3	<3	<3	<3
ANSI/IEC Battery Current (mA)	1.1	1.1	1.1	1.1
Idle Current (mA)	1.0	1.0	1.0	1.0
Estimated Battery Life for 16-Hour Day				
10 Zinc Air (days)	5-7	5-7	5-7	5-7
Tinnitus Therapy Stimulus				
Max RMS Output (dB SPL)	87		87	
Weighted RMS Output Level (dB SPL)	87		87	
Max 1/3 Octave Output (dB SPL)	87		87	

▶ **Matrices** 110/35, 110/40, 115/50

▶ **Battery Size** 10



OSPL90 (gray) and Full-On Gain (black) curves for the SoundLens Synergy IIC at a matrix of 110/35.



OSPL90 (gray) and Full-On Gain (black) curves for the SoundLens Synergy IIC at a matrix of 110/40.

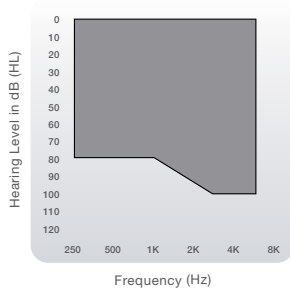
IIC

INVISIBLE-IN-THE-CANAL

2400/2000/1600

110/50

Fitting Guide



SoundLens Synergy IIC fitting range.

Multiflex Tinnitus Technology

Color Guide



Measurement

	ANSI/IEC 2cc Coupler	IEC OES Coupler
Peak OSPL90 (dB SPL)	115	118
HFA OSPL90 (dB SPL)	109	N/A
RTF OSPL90 (dB SPL)	N/A	110
Peak Gain (dB)	50	54
HFA Full-On Gain (dB)	46	N/A
RTF Full-On Gain (dB)	N/A	46
Frequency Range (Hz)	<100-8500	<100-8900
Reference Test Freq. (kHz)	N/A	1.6
HFA Frequencies (kHz)	1.0,1.6,2.5	N/A
Reference Test Gain (dB)	32	35
Equivalent Input Noise (dB)	<25	<25

Harmonic Distortion

500 Hz (%)	<3	<3
800 Hz (%)	<3	<3
1600 Hz (%)	<3	<3

ANSI/IEC Battery Current (mA)	1.1	1.1
Idle Current (mA)	1.0	1.0

Estimated Battery Life for 16-Hour Day

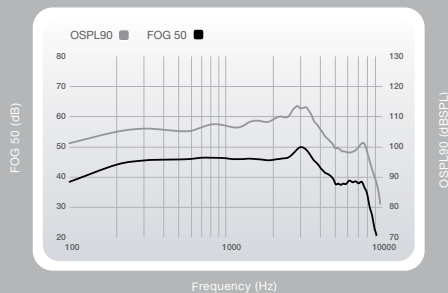
10 Zinc Air (days)	5-7	5-7
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Tinnitus Therapy Stimulus

Max RMS Output (dB SPL)	87
Weighted RMS Output Level (dB SPL)	87
Max 1/3 Octave Output (dB SPL)	87

▶ **Matrices** 110/35, 110/40, 115/50

▶ **Battery Size** 10



OSPL90 (gray) and Full-On Gain (black) curves for the SoundLens Synergy IIC at a matrix of 115/50.

Made for convenient

connectivity



TRULINK™



SURFLINK®

At Starkey Hearing Technologies, our wireless accessories help patients listen to the things they want to hear, and tune out the things they don't. Allowing connectivity between devices is the future of hearing solutions, and we're happy to offer our patients the latest and most advanced technologies.

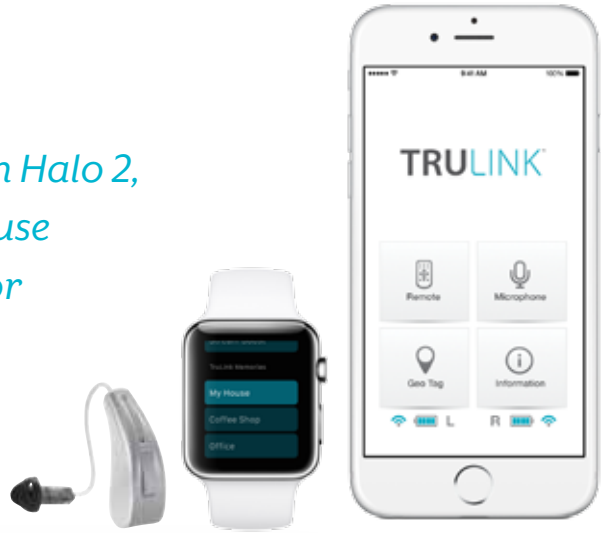
Whether your patients are a better fit for SurfLink, our leading 900 MHz wireless system, or are ready to step up to the convenience and control of 2.4 GHz TruLink, you get more options, smarter solutions and better results when you go with Starkey.

- › SurfLink Wireless accessories
- › TruLink Wireless accessories

Made for

Halo 2

*TruLink, partnered with Halo 2,
is easy and intuitive to use
on your iPhone, iPad® or
Apple Watch®.*





Halo 2 + TRULINK™



The TruLink app is available for download on the App Store® or Google Play.™



Made for iPhone. Made for you.

Halo 2 is designed to work with our proprietary TruLink Hearing Control app, Halo 2 also connects seamlessly to your patient's iPhone — transforming it from a high-performance hearing aid into the most personalized hearing solution ever by:

- Enabling **carefree conversations** using iPhone
- Delivering **Starkey Sound** and pristine audio streaming of any music or media played through their iPhone, iPad and iPod touch
- Letting patients **personalize and geotag** memories to match what they do and where they go
- **Automatically adapting** when patients are traveling in cars
- **Changing memories automatically** based on personalized geotags (e.g. coffee shop memory kicks in when they walk into their favorite coffee shop)
- Allowing users to **record, play back and email** live sound sources
- Allowing **Siri® to read emails and texts** to patients through their hearing aids
- Letting them **control** their hearing aid **volume and memories** via iPhone



TruLink Programmer

Our TruLink Programmer, combined with TruLink Technology and Inspire® fitting software, gives you the ultimate speed and flexibility in direct-to-hearing aid wireless programming with no relay device.

Made for *your* day-to-day.



SoundSpace

TruLink SoundSpace™ enables patients to easily adjust sound settings to their specific environment. By simply moving their finger on the screen, they can adjust frequency and tone to suit their needs. They're also able to save and fine-tune their preferences in different situations as a TruLink Memory so that they're comfortable in any listening environment.



Remote Control

With the touch of their iPhone, patients can easily change volume and switch Memories on their hearing aids. Both are adjustable with a visual indicator bar for better control and nearly infinite levels to suit their preference.



Pristine Audio Streaming

Halo 2 provides direct streaming of phone calls, music and media so patients can enjoy carefree communication and pristine audio streaming anytime and anywhere for impressive, immersive sound.





Real-Time Notifications

Patients can hear email, calendar, messages and social notifications directly thru their Halo 2 hearing aids.



Live Microphone

Live Microphone lets patients record, play back and even email audio as it happens. They can also use their iPhone as a microphone by placing their phone near a sound source so conversations can be streamed directly to their hearing aids.



Tinnitus Treatment

Integrated controls in the app help patients control the volume and modulation rate of our patent-pending MultiFlex Tinnitus Technology.



TruLink Adaptive Car Mode

With TruLink's Adaptive Car Mode, Halo 2 will automatically change to a setting designed to reduce the annoying sounds of driving and enhance your patient's "audio" driving experience.



TruLink Hearing Control app for Apple Watch provides your patients even more ways to easily control and personalize their hearing experience.



TruLink Memories

Patients can create up to 20 TruLink Memories using the SoundSpace tool on the TruLink app. Each memory is programmed and run via the app, and gives patients the ability to label them to their liking.

Patients can even geotag their TruLink Memories using the built-in GPS on their iPhone. A geotagged memory will recognize where they are, and automatically adjust their Halo 2 hearing aids when they enter that space. For instance, a geotagged "coffee shop" memory will automatically activate when they walk into their favorite coffee shop.

A family of products
made for sound.



*SurfLink accessories
offer patients
carefree
connectivity.*





Our popular SurfLink Mobile has been enhanced to provide a better patient experience. **SurfLink Mobile 2** is a cell phone transmitter, assistive listening device, media streamer and hearing aid remote all rolled into one. Offering an updated user interface and controls, it also features doubled battery life over our first generation SurfLink Mobile without an increase in size. SurfLink Mobile 2 is the only device to offer **JustTalk™**, enabling hands-free cell phone conversations by turning Muse hearing aids into the microphone and receiver.

SurfLink Mobile 2, SurfLink Media 2 and SurfLink Remote offer patients carefree, hands-free connectivity and control with no worn device.

*In its revolutionary **JustTalk mode**, **SurfLink Mobile** makes talking on the phone easier than ever. The user's hearing aids can act as both microphone and receiver via two-way streaming.*

Made for a wireless landscape



SurfLink Mobile 2

Using our revolutionary JustTalk™ mode, SurfLink Mobile 2 enables hands-free cell phone conversations by turning our wireless hearing aids into the phone microphone and receiver:

- Microphone—The patient's hearing aids pick up their voice and send it to the person they're talking to
- Receiver—SurfLink Mobile 2 streams the voice on the other end of the phone directly to both of the patient's hearing aids for binaural listening

- Directional microphone enhances one-on-one conversations in noisy environments
- Omnidirectional capability is ideal for listening in meetings or group settings
- Wirelessly streams sound from TVs or MP3 players using Bluetooth or an audio connector cable
- Can also be used as a powerful assistive listening device (ALD) as well as a hearing aid remote

SurfLink Remote

With the optional SurfLink Remote, patients can control memory and volume adjustments, mute their hearing instruments, or go in and out of streaming mode.





- Streams stereo sound directly from media devices to the patients' hearing aids without pairing or body-worn relay devices
- Helps prevent patients and companions from fighting over the volume

SurfLink Programmer

Our SurfLink Programmer, combined with 900sync Technology and Inspire fitting software, gives you the ultimate speed and flexibility in direct-to-hearing aid wireless programming with no relay device.

- Detects your patients' wireless devices in seconds
- Features at least a 20-foot range
- Frees patients to move around during counseling and demonstrations
- Connects via standard USB cable

SurfLink Media 2

Featuring new high fidelity sound when paired with Muse hearing aids and two times the current bandwidth, new SurfLink Media 2 lets patients listen to any media device directly to their hearing aids with no intermediary device.

SurfLink Media 2:

- Uses Intelligent Media Mobility to allow seamless room-to-room transitions between media devices
- Enables multiple people wearing wireless hearing aids to connect to a single device
- Eliminates audio delay and lip-sync issues commonly found with other wireless systems¹



- Requires no additional hardware for the patient
- Is 4x faster than HiPro and nearly twice as fast as NOAHLINK and nEARcom

¹Latency is unnoticeable according to International Telecommunications Union standards



SurfLink Remote Microphone

The SurfLink Remote Microphone is designed to stream audio directly to your Muse hearing aids. This discreet, lightweight device can be worn by a conversation partner to aid patients in one-on-one conversations or settings with multiple speakers. Patients are able to switch between different modes to optimize their listening experience in these different environments.

Measurements

The data for Starkey hearing instruments are obtained and performance is expressed according to ANSI S3.22 (2003), ANSI C63.19 (2007), 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 Starkey hearing instruments, the hearing instrument must be set to test mode to compare the actual performance of the hearing instrument with these specifications. Starkey 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.



Hearing Is Our Concern™

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Halo 2 and TruLink are compatible with iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 3, iPad mini with Retina display, iPad mini and iPod touch (5th generation). "Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance. Apple, the Apple logo, iPhone, iPad, iPod touch, Apple Watch, App Store, and Siri are trademarks of Apple Inc., registered in the U.S. and other countries.

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