



# Starkey | Technical Data

## ITE R

### In-The-Ear Rechargeable

## Omega AI

### Key Features

- Acoustic Optimization Model 2.0
- Auto Stream
- Find My Hearing Aids
- Bluetooth® Low Energy Audio with *Auracast* technology
- StarLink Edge Remote Microphone, StarLink Edge Table Microphone, StarLink Edge TV Streamer & StarLink Remote Control 2.0 Compatibility
- Apple Watch® Controls\*
- Balance Assessment within My Starkey App
- Demo Stream
- Tinnitus maskers (blue/red/pink/purple/ocean)
- Lithium-Ion Rechargeable Battery
- 24 Channels
- 4 Programs\*\*
- Directional Processing: Adaptive, Dynamic
- Additive Compressor
- Feedback Canceller
- Data Log
- Voice AI\*
- Translate
- Multiflex Tinnitus Pro
- Transcribe
- Edge Mode+
- Gen AI Smart Assistant & TeleHear AI
- 2-Way Audio & Find My Phone
- Hearing Health & Activity Tracking
- Fall Alert
- Reminders & Self Check
- Auto Sleep
- Tap Control
- TeleHear full remote fit & REM Target Match
- My Starkey & Hear Share App Compatibility
- NOAH Link Wireless Programming

- Optional Telecoil
- Waterproof up to 1 meter
- Wireless programmability

### Sound Manager:

- Quiet
- Machine Noise Reduction
- Speech in Noise Reduction
- Transient Noise Reduction
- Wind Reduction

### Ear-to-Ear Technology:

- Binaural Wind
- Binaural Machine
- Binaural Mode Directionality

### Multiple Processor:

For many years, Starkey has utilized multiple processors within a single chip, processors that work separately and concurrently to perform the various processing tasks of a modern-day hearing aid. Each processor is optimized to provide efficient calculations for a particular aspect of the audio processing. As technology advances, new types of processors are added, such as those optimized to execute neural networks, so that Starkey can continue to improve the sound quality of our hearing aids and ability of the hearing aid wearer to understand speech in a challenging environment.

### SCIF:

All Starkey Omega AI wireless hearing aids are SCIF-compliant devices. All hands-free, bi-directional wireless audio transmission features may be disabled in the hearing firmware through fitting software by the audiologist. Those restricted features cannot be activated by the patient by any means.

\*For iOS users only.

\*\*Programs accessible via hearing aid user control or wireless accessory.

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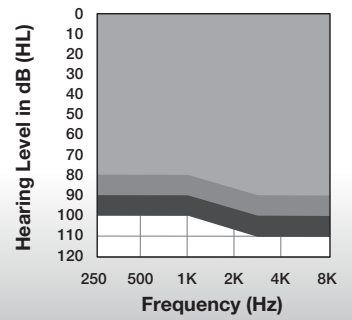
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## ITE R

### In-The-Ear Rechargeable

#### Fitting Range

- M
- P
- UP



#### Omega AI

#### Color Guide

##### Faceplate Colors



##### Shell Colors



#### Patient Features

- IP Rating: 68
- Tinnitus Technology
- Wireless Connectivity
- Rechargeable Battery
- Telecoil

#### Omega AI Technology

- Personal health monitoring technology with embedded sensors and artificial intelligence
- Compatible with StarLink Remote Control 2.0 and StarLink Edge accessories

	M	P	UP	Matrices: M, P, UP Battery: Lithium-ion
<b>Measurement</b>	<b>ANSI/IEC 2cc Coupler</b>	<b>ANSI/IEC 2cc Coupler</b>	<b>ANSI/IEC 2cc Coupler</b>	
Peak OSPL90 (dB SPL)	114	117	125	<b>M</b> 
HFA OSPL90 (dB SPL)	109	113	121	
Peak Gain (dB)	51	58	67	
HFA Full-On Gain (dB)	46	54	63	<b>P</b> 
<b>Frequency Range (Hz)</b>	<100-8300	<100-5700	<100-5300	
HFA Frequencies (kHz)	1.0,1.6,2.5	1.0,1.6,2.5	1.0,1.6,2.5	
Reference Test Gain (dB)	32	36	44	<b>UP</b> 
Equivalent Input Noise (dB SPL) <i>Expansion On (Default)</i>	15	15	15	
Equivalent Input Noise (dB SPL) <i>Expansion Off</i>	25	25	25	
<b>Harmonic Distortion</b>				
500 Hz (%)	<3	<3	<3	
800 Hz (%)	<3	<3	<3	
1600 Hz (%)	<3	<3	<3	
<b>Induction Coil Sensitivity</b>				
HFA SPLITS (ANSI) (dB SPL) <sup>1,2</sup>	92	97	105	
MASL (IEC) (dB SPL) <sup>1</sup>	74	83	92	
<b>Estimated Lithium-ion Battery Life<sup>3</sup></b>				
Without streaming (hrs)	Up to 42	Up to 42	Up to 42	
With streaming (hrs)	Up to 36	Up to 36	Up to 36	
Battery Current (mA)	0.9	0.9	0.9	
<b>Tinnitus Therapy Stimulus</b>				
Max RMS Output (dB SPL)	87	87	87	
Weighted RMS Output Level (dB SPL)	87	87	87	
Max 1/3 Octave Output (dB SPL)	87	87	87	

<sup>1</sup>Devices built with a vertical coil orientation.

<sup>2</sup>HFA SPLITS values could be increased by up to 6 dB for horizontal coil orientation.

<sup>3</sup>Results will vary based on wireless usage.

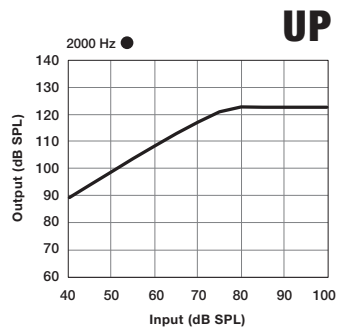
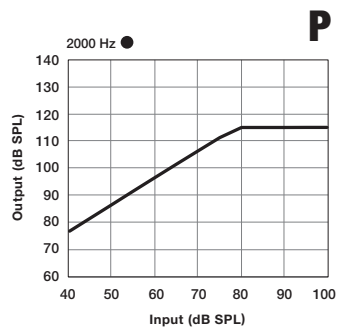
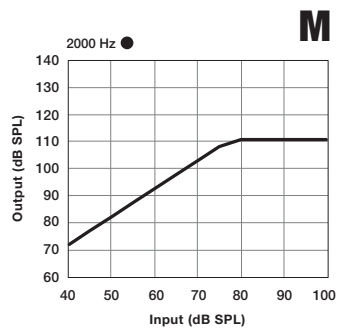


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# ITE R

In-The-Ear Rechargeable

Omega AI



Latency (ms)	4.3
Attack Time (ms)	3
Release Time (ms)	60



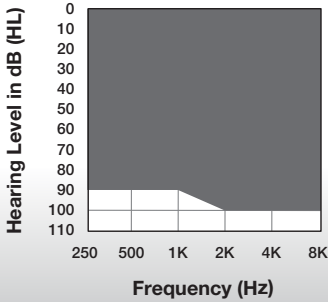
# Starkey | Technical Data

## ITE R

In-The-Ear Rechargeable

Fitting  
Range

● UP-



### Omega AI

#### Color Guide

##### Faceplate Colors



##### Shell Colors



#### Patient Features

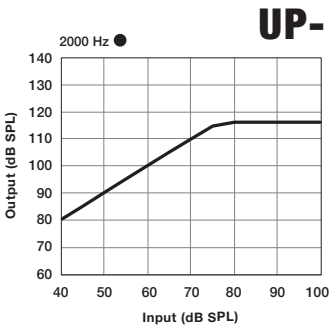
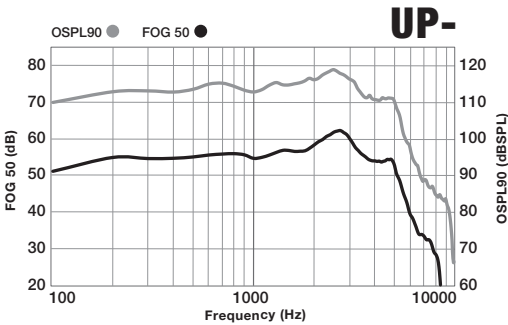
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- Wireless Connectivity
- Rechargeable Battery
- Telecoil

#### Omega AI Technology

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- Compatible with StarLink Remote Control 2.0 and StarLink Edge accessories

	UP-	Matrices: UP- Battery: Lithium-ion
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Measurement	ANSI/IEC 2cc Coupler
Peak OSPL90 (dB SPL)	119
HFA OSPL90 (dB SPL)	116
Peak Gain (dB)	62
HFA Full-On Gain (dB)	58
Frequency Range (Hz)	<100-6000
HFA Frequencies (kHz)	1.0, 1.6, 2.5
Reference Test Gain (dB)	39
Equivalent Input Noise (dB SPL) <i>Expansion On (Default)</i>	15
Equivalent Input Noise (dB SPL) <i>Expansion Off</i>	25
Harmonic Distortion	
500 Hz (%)	<3
800 Hz (%)	<3
1600 Hz (%)	<3
Induction Coil Sensitivity	
HFA SPLITS (ANSI) (dB SPL) <sup>1,2</sup>	99
MASL (IEC) (dB SPL) <sup>1</sup>	86
Estimated Lithium-ion Battery Life*	
Without streaming (hrs)	Up to 42
With streaming (hrs)	Up to 36
Battery Current (mA)	0.9



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

Latency (ms)	4.3
Attack Time (ms)	3
Release Time (ms)	60

<sup>1</sup>Devices built with a vertical coil orientation.  
<sup>2</sup>HFA SPLITS values could be increased by up to 6 dB for horizontal coil orientation.  
\*Results will vary based on wireless usage.  
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