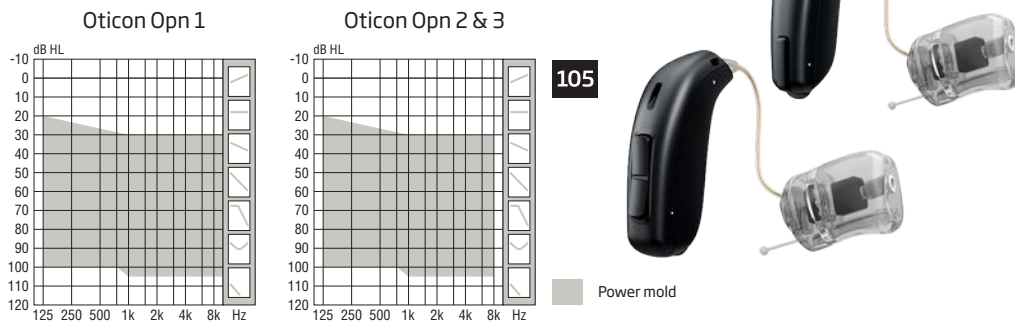


# Technical data sheet



	Oticon Opn 1	Oticon Opn 2	Oticon Opn 3	
<b>Speech Understanding</b>	OpenSound Navigator™	Level 1	Level 2	Level 3
	- Balancing power effect	100%	50%	50%
	- Max. noise removal	9 dB	5 dB	3 dB
	Speech Guard™ LX	Level 1	Level 2	Level 3
	Spatial Sound™ LX	4 estimators	2 estimators	2 estimators
	Soft Speech Booster LX	•	•	•
<b>Sound Quality</b>	Speech Rescue™ LX	•	•	•
	Clear Dynamics	•	•	-
	Binaural Noise Management	•	•	-
	Fitting Bandwidth*	10 KHz	8 KHz	8 KHz
	Processing Channels	64	48	48
<b>Listening Comfort</b>	Bass Boost (streaming)	•	•	•
	Transient Noise Management	4 configurations	On/Off	On/Off
	Feedback shield LX	•	•	•
<b>Personalization &amp; Optimizing Fitting</b>	Wind Noise Management	•	•	•
	YouMatic™ LX	3 configurations	2 configurations	1 configuration
	Fitting Bands	16	14	12
	Multiple Directionality Options	•	•	•
	Adaptation Management	•	•	•
<b>Connecting to the World</b>	Oticon Firmware Updater	•	•	•
	Fitting Formulas	VAC+, NAL-NL1 + 2, DSL v5.0	VAC+, NAL-NL1 + 2, DSL v5.0	VAC+, NAL-NL1 + 2, DSL v5.0
<b>Connecting to the World</b>	Stereo streaming (2.4 GHz)	•	•	•
	Oticon ON App	•	•	•
	ConnectClip	•	•	•
	Remote Control 3.0	•	•	•
	TV Adapter 3.0	•	•	•
<b>Connecting to the World</b>	Tinnitus SoundSupport™	•	•	•
	Expected battery life, hours**	45-65	45-65	45-65

\* Bandwidth accessible for gain adjustments during fitting

\*\* Battery size 312 - IEC PR41.

Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).

## OTICON | Opn

miniRITE 105  
miniRITE-T 105

Oticon Opn™ miniRITE is a discreet design with a smart single push button.

Oticon Opn miniRITE-T is a discreet style based on the popular miniRITE. It features a telecoil and a convenient double push button for easy operation of the volume and program controls.

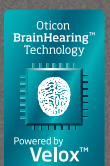
OpenSound Navigator™ provides better speech understanding by continuously analyzing the environment, balancing all sound sources and attenuating the dominating noise.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity in stereo directly to external digital devices with very low power consumption.

Fully programmable with updatable firmware, the Velox™ platform is ready for the future.

Oticon Opn is a Made for iPhone® hearing aid.

Oticon Opn is built on the new Velox platform, providing frequency resolution in 64 channels (Opn 1).

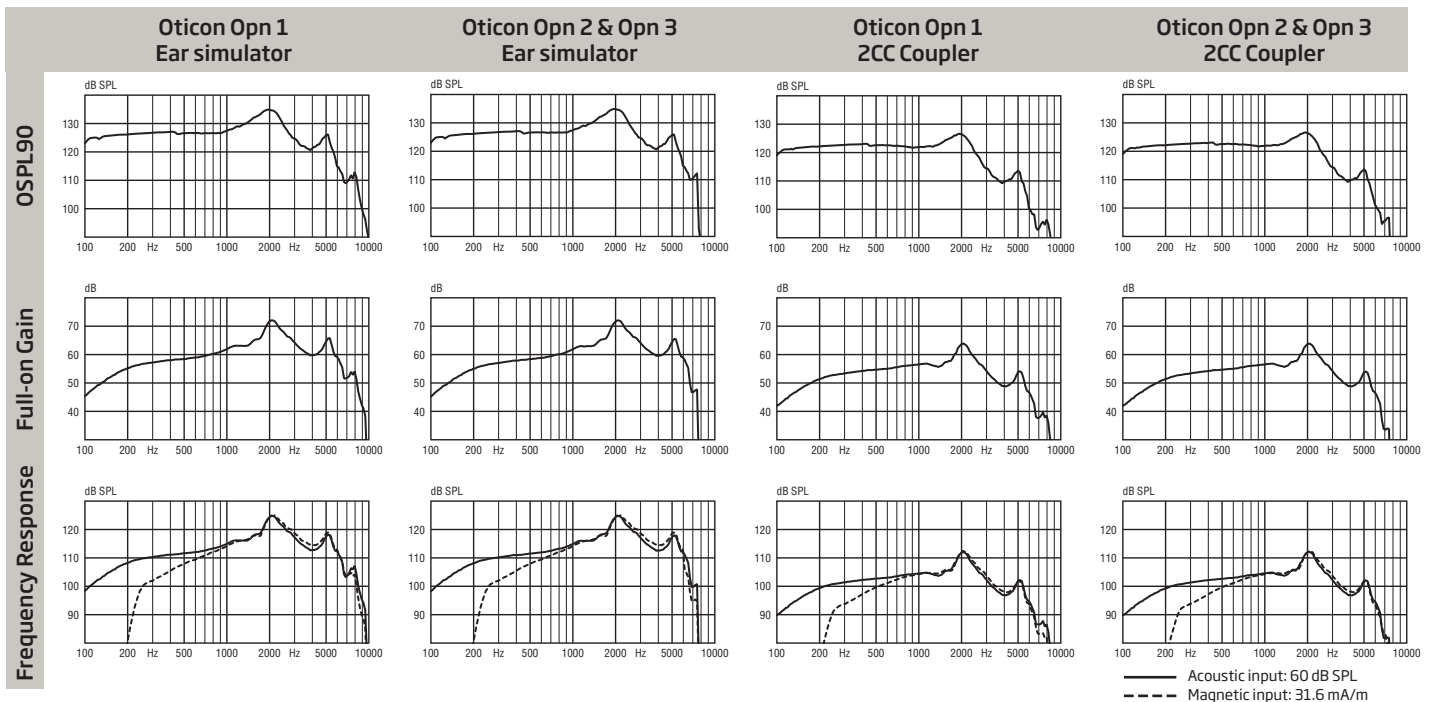


Oticon Opn is compatible with iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, 9.7-inch iPad Pro, 12.9-inch iPad Pro, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, and iPod touch (5th and 6th generation). Devices must be running iOS 9.3 or later. Please visit [www.oticon.com/connectivity](http://www.oticon.com/connectivity) for more details on compatibility.



Technical data Measured according to		Ear Simulator IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010			ZCC Coupler ANSI S3.22:2014, IEC 60118-0:2015 and IEC 60318-5:2006			
Oticon Opn miniRITE/miniRITE-T		Opn 1	Opn 2	Opn 3	Opn 1	Opn 2	Opn 3	
Frequency range Hz		100-8200	100-7500	100-7500	100-7800	100-6500	100-6500	
OSPL90	Peak	135 dB SPL			127 dB SPL			
	1600 Hz	132 dB SPL			125 dB SPL			
	HFA-OSPL90	130 dB SPL			122 dB SPL			
Full-on gain*	Peak	72 dB			64 dB			
	1600 Hz	65 dB			57 dB			
	HFA-FOG	65 dB			57 dB			
Reference test gain		58 dB			46 dB			
Telecoil output (1600 Hz) (miniRITE-T)	1 mA/m field	96 dB SPL			-			
	10 mA/m field	116 dB SPL			-			
	SPLITS L/R	-			105/105 dB SPL			
Total harmonic distortion (Input 70 dB SPL)	500 Hz	< 2 %			< 2 %			
	800 Hz	< 2 %			< 2 %			
	1600 Hz	< 3 %			< 2 %			
Equivalent input noise level	Omni	18 dB SPL			18 dB SPL			
	Dir	28 dB SPL			29 dB SPL			
Battery consumption**	Typical	1.6 mA			1.7 mA			
	Quiescent	1.5 mA			1.5 mA			
Battery life, artificial measurement, hours***		110			105			
IRIL (IEC 60118-13:2011) miniRITE		800/1400/2000 MHz: 31/<16/<16 dB SPL						
IRIL (IEC 60118-13:2016) miniRITE-T		700/1400/2000 MHz: 38/18/39 dB SPL						

\* Measured with the gain control of the hearing aid set to its full-on position minus 20 dB and with an input SPL of 70 dB. This is to obtain a gain response equal to the full-on gain response from e.g. IEC 60118-0+A1:1994 but without influence of feedback.  
\*\* Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of a minimum of 3 minutes.  
\*\*\* Based on the standardized battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.



Technical information: Omnidirectional mode is used unless otherwise stated.

**Operating conditions**  
Temperature: +1°C to +40°C  
Relative humidity:  
5% to 93%, non-condensing

**Storage and transportation conditions**  
Temperature and humidity should not exceed the following limits for extended periods during transportation and storage.  
Temperature: -25°C to +60°C  
Relative humidity: 5% to 93%, non-condensing

**Instrument warning**  
The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the instrument as there may be risk of impairing the remaining hearing of the hearing instrument user.

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