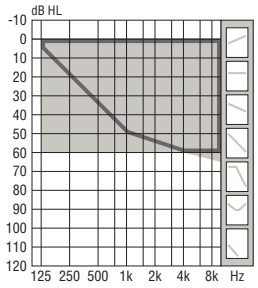
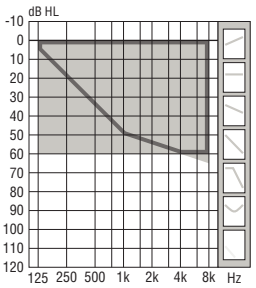
Technical data sheet

Oticon Opn 1



Oticon Opn 2 & 3



60

Mould, Bass & Power dome

Open dome

		Oticon Opn 1	Oticon Opn 2	Oticon Opn 3
Speech Understanding	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	•	•	•
	Speech Rescue™ LX	•	•	•
Sound Quality	Clear Dynamics	•	•	-
	Spatial Noise Management	•	•	-
	Fitting Bandwidth*	10 KHz	8 KHz	8 KHz
	Processing Channels	64	48	48
	Bass Boost (streaming)	•	•	•
Listening Comfort	Transient Noise Management	4 configurations	On/Off	On/Off
	Feedback shield LX	•	•	•
	Wind Noise Management	•	•	•
Personalisation & Optimising Fitting	YouMatic™ LX	3 configurations	2 configurations	1 configuration
	Fitting Bands	16	14	12
	Multiple Directionality Options	•	•	•
	Adaptation Management	•	•	•
	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
Connecting to the World	Stereo streaming (2.4 GHz)	•	•	•
	Oticon ON App	•	•	•
	ConnectClip	•	•	•
	Remote Control 3.0	•	•	•
	TV Adapter 3.0	•	•	•
	Tinnitus SoundSupport™	•	•	•
	Expected battery life, hours**	60-65	60-65	60-65

* 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 60
miniRITE-T 60

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

Oticon Opn miniRITE-T is a discreet new style, based on the popular miniRITE, and features telecoil and a convenient double push button for easy volume and program control.

OpenSound Navigator™ provides better speech understanding by continuously analysing 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.

Oticon Opn is a Made for iPhone® hearing aid.

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

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

Oticon BrainHearing™ Technology
Powered by Velox™

TwinLink NFMI + 2.4 GHz

Made for iPod iPhone iPad

IP68

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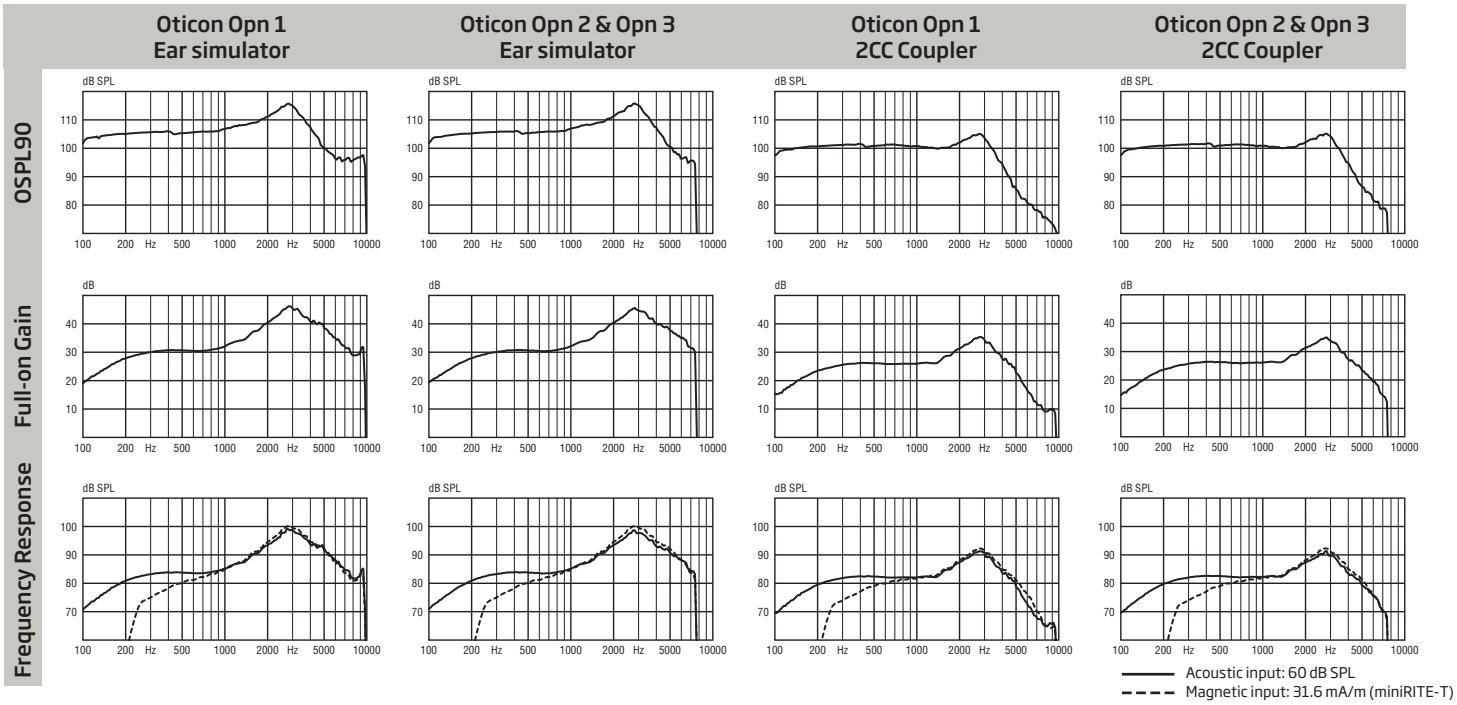
Oticon Opn is compatible with iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, 9.7-inch iPad Pro, 12.9-inch iPad Pro, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, and iPod touch (5th and 6th generation). Devices must be running iOS 9.3 or later. Please visit www.oticon.global/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			**2CC 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		110-9700	110-7500	110-7500	100-9200	100-7500	100-7500
OSPL90	Peak	116 dB SPL			105 dB SPL		
	1600 Hz	109 dB SPL			100 dB SPL		
	HFA-OSPL90	110 dB SPL			102 dB SPL		
Full-on gain*	Peak	46 dB			35 dB		
	1600 Hz	37 dB			29 dB		
	HFA-FOG	38 dB			30 dB		
Reference test gain		30 dB			26 dB		
Telecoil output (1600 Hz) (miniRITE-T)	1 mA/m field	67 dB SPL			-		
	10 mA/m field	87 dB SPL			-		
	SPLITS L/R	-			85/85 dB SPL		
Total harmonic distortion (Input 70 dB SPL)	500 Hz	<2 %			<2 %		
	800 Hz	<3 %			<2 %		
	1600 Hz	<2 %			<2 %		
Equivalent input noise level	Omni (dB SPL)	21	22	22	18	19	19
	Dir (dB SPL)	28	30	30	27	28	28
Battery consumption**	Typical	1.5 mA			1.6 mA		
	Quiescent	1.5 mA			1.5 mA		
Battery life, artificial measurement, hours***		120			115		
IRIL (IEC 60118-13:2011) miniRITE IRIL (IEC 60118-13:2016) miniRITE-T		800/1400/2000 MHz: 21/<2/<2 dB SPL 700/1400/2000 MHz: 16/21/26 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 minimum 3 minutes.
*** Based on the standardised 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

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