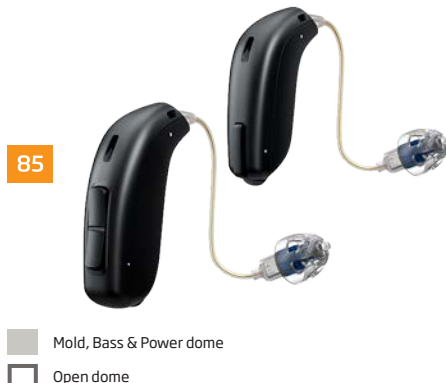
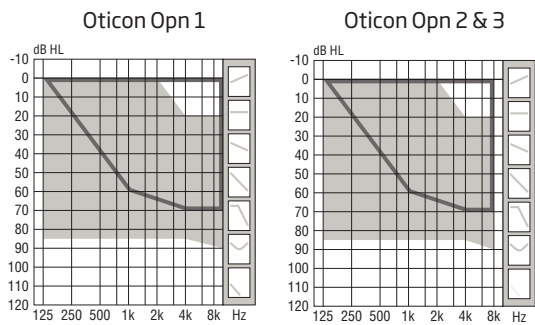


Technical data sheet



| | 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 | • | • | • |
| Sound Quality | Speech Rescue™ LX | • | • | • |
| | Clear Dynamics | • | • | - |
| | Binaural Noise Management | • | • | - |
| | Fitting Bandwidth* | 10 KHz | 8 KHz | 8 KHz |
| | Processing Channels | 64 | 48 | 48 |
| Listening Comfort | Bass Boost (streaming) | • | • | • |
| | Transient Noise Management | 4 configurations | On/Off | On/Off |
| | Feedback shield LX | • | • | • |
| Personalization & Optimizing Fitting | Wind Noise Management | • | • | • |
| | YouMatic™ LX | 3 configurations | 2 configurations | 1 configuration |
| | Fitting Bands | 16 | 14 | 12 |
| | Multiple Directionality Options | • | • | • |
| | Adaptation Management | • | • | • |
| Connecting to the World | 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 |
| | Stereo streaming (2.4 GHz) | • | • | • |
| Connecting to the World | Oticon ON App | • | • | • |
| | ConnectClip | • | • | • |
| | Remote Control 3.0 | • | • | • |
| | TV Adapter 3.0 | • | • | • |
| | Tinnitus SoundSupport™ | • | • | • |
| Expected battery life, hours** | 55-65 | 55-65 | 55-65 | |

* 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 85
 miniRITE-T 85

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.

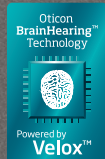
OpenSound Navigator™ provides better speech understanding by continuously analyzing the environment, balancing all sound sources and attenuating the dominating noise.

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).

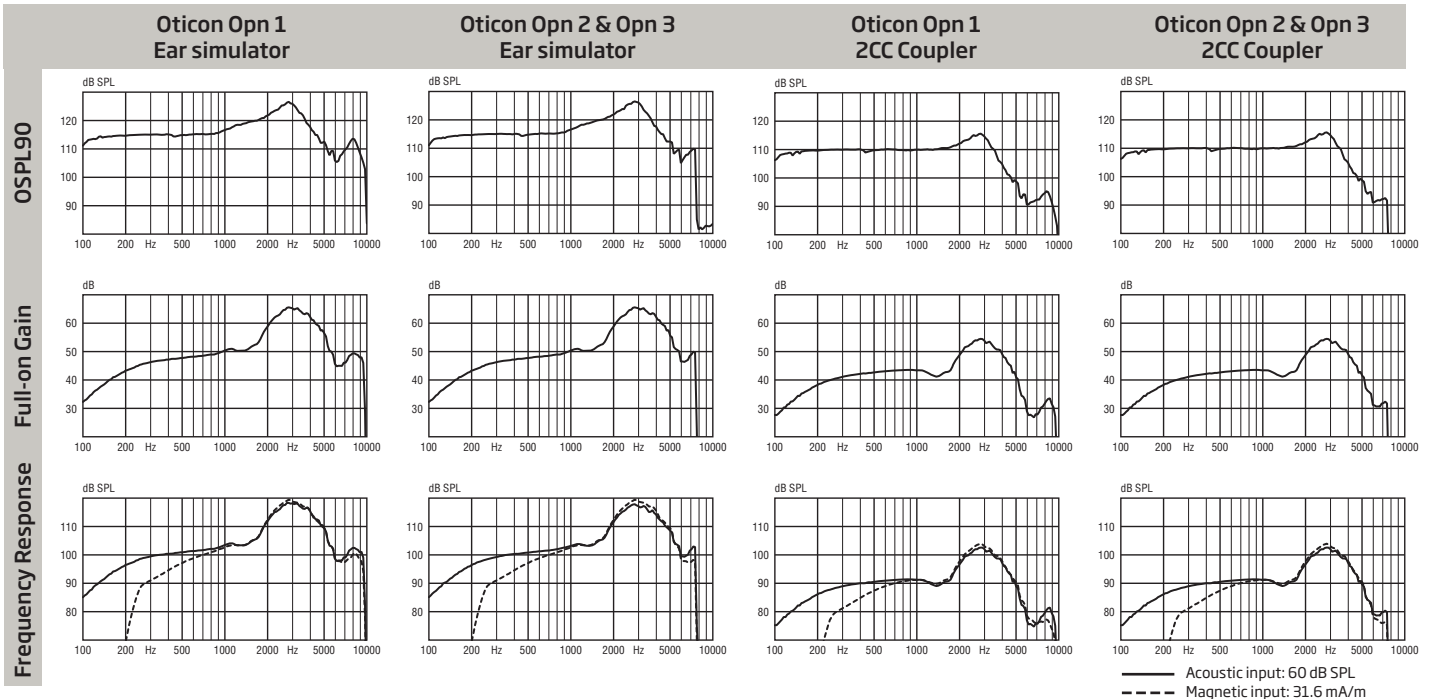


Oticon Opn is compatible with iPhone 7 Plus, iPhone 7, iPhone SE, iPhone 6s Plus, iPhone 6s, iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, 9.7-inch iPad Pro, 12.9-inch iPad Pro, iPad Air 2, iPad Air, iPad (4th generation), iPad mini 4, iPad mini 3, iPad mini 2, iPad mini, and iPod touch (5th and 6th generation). Devices must be running iOS 9.3 or later. Please visit www.oticon.com 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 | | 120-9500 | 120-7500 | 120-7500 | 100-8500 | 100-7500 | 100-7500 |
| OSPL90 | Peak | 127 dB SPL | | | 116 dB SPL | | |
| | 1600 Hz | 120 dB SPL | | | 111 dB SPL | | |
| | HFA-OSPL90 | 121 dB SPL | | | 112 dB SPL | | |
| Full-on gain* | Peak | 66 dB | | | 54 dB | | |
| | 1600 Hz | 52 dB | | | 43 dB | | |
| | HFA-FOG | 55 dB | | | 47 dB | | |
| Reference test gain | | 45 dB | | | 34 dB | | |
| Telecoil output (1600 Hz) (miniRITE-T) | 1 mA/m field | 82 dB SPL | | | - | | |
| | 10 mA/m field | 102 dB SPL | | | - | | |
| | SPLITS L/R | - | | | 94/94 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) | 25 | 26 | 26 | 20 | 21 | 21 |
| | Dir (dB SPL) | 32 | 33 | 33 | 29 | 30 | 30 |
| 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/<15/<15 dB SPL | | | | | |
| IRIL (IEC 60118-13:2016) miniRITE-T | | 700/1400/2000 MHz: 20/20/24 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



Absolute Hearing Solutions LLC
 absolutehearing@att.net

750 Cross Pointe Road Suite F
 Gahanna, Ohio 43230

Phone: 614-452-4280
 Toll Free: 888-603-2159
 Fax: 614-577-0461
 www.absolutehearingsolutions.com

Apple, the Apple logo, iPhone, iPad, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.