

Technical data sheet

miniRITE R

60 85 100 105



	Oticon Opn Play 1	Oticon Opn Play 2	
Speech Understanding	OpenSound Navigator™	Level 1	Level 3
	- Balancing power effect	100%	50%
	- Max. noise removal	9 dB	3 dB
	OpenSound Optimizer™	•	•
	Speech Guard™ LX	Level 1	Level 3
	Spatial Sound™ LX	4 estimators	2 estimators
	Speech Rescue™ LX	•	•
Sound Quality	Clear Dynamics	•	-
	Spatial Noise Management	•	-
	Fitting Bandwidth*	10 kHz	8 kHz
	Processing Channels	64	48
	Bass Boost (streaming)	•	•
Listening Comfort	Transient Noise Management	4 configurations	On/Off
	Feedback shield LX	•	•
	Wind Noise Management	•	•
Optimizing Fitting	YouMatic™ LX	3 configurations	1 configuration
	Fitting Bands	16	12
	REM AutoFit	Verifit® LINK, IMC 2**	Verifit® LINK, IMC 2**
	Pediatric Fitting Mode	•	•
	DSL Fitting Range ***	•	•
	Fitting Formulas	DSL v5.0, NAL-NL1 + 2, VAC+	DSL v5.0, NAL-NL1 + 2, VAC+
Designed for children	LED	•	•
	Tamper Resistant Battery Drawer	•	•
	Hypo Allergenic	•	•
	IP Rating	IP68	IP68
	Nano Coating	•	•
	Color Options	12	12
	Integrated 2.4 GHz Receiver	•	•
	FM Compatibility	Telecoil	Telecoil

* Bandwidth accessible for gain adjustments during fitting

** Inter Module Communication 2

*** Available in this Technical Data sheet and Opn Play Product Guide

Operating conditions

Temperature: +5°C to +40°C (41°F to 104°F)
Relative humidity: 5% to 93%, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Storage and transportation conditions

Temperature and humidity shall not exceed the below limits for extended periods during transportation and storage.

Transport:

Temperature: -20°C to +60°C (-4°F to 140°F)
Relative humidity: 5% to 93%, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Storage:

Temperature: -20°C to +30°C (-4°F to 86°F)
Relative humidity: 5% to 93%, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

Oticon Opn Play™ miniRITE R is a new rechargeable pediatric hearing aid powered by a lithium-ion battery. The inductive charger secures reliable and fast charging within 3 hr. for a full charge.

miniRITE R features telecoil and a convenient double pushbutton. Also, the battery sits safely inside the concealed compartment.

OpenSound Navigator™ gives children 360° access to the full soundscape across simple and complex listening environments, constantly maximizing learning opportunities.

OpenSound Optimizer™ proactively identifies and prevents feedback before it occurs, preserving audibility and increasing fitting flexibility.

TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity with stereo streaming directly from digital devices.

Oticon Opn Play is powered by Oticon's Velox S™ platform which offers market-leading speed and resolution and takes pediatric hearing care to a new level.



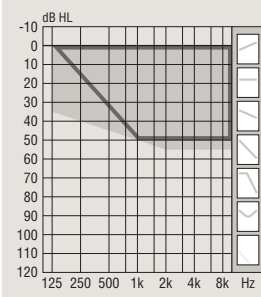
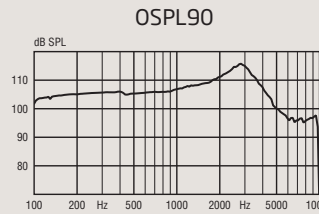
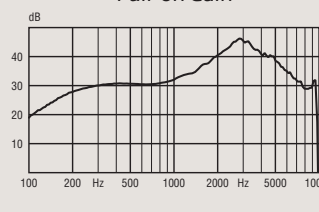
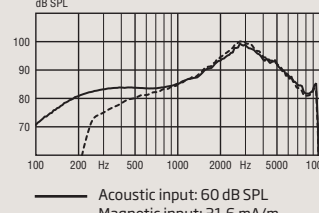
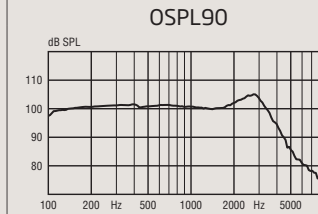
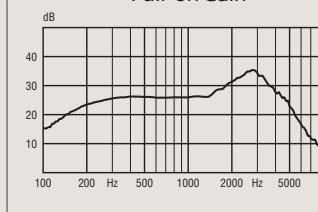
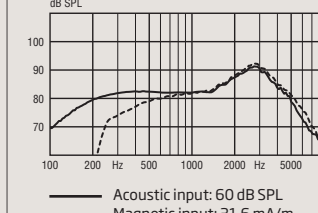
IP68

For information on compatibility, please visit www.oticon.com/support/compatibility. Apple, the Apple logo, iPhone, iPad, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

oticon
life-changing technology

Oticon Opn Play 1

miniRITE R 60

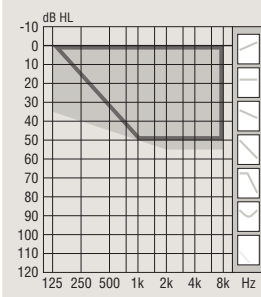
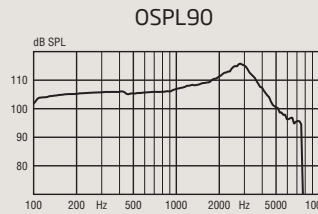
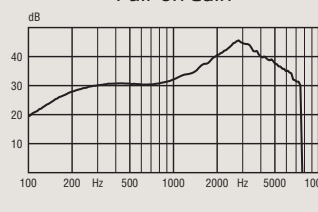
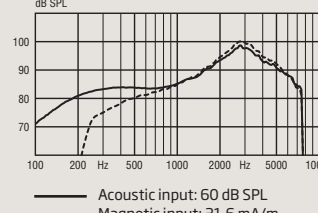
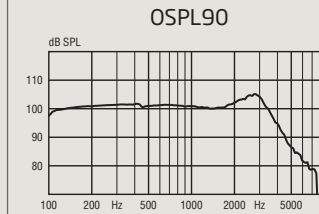
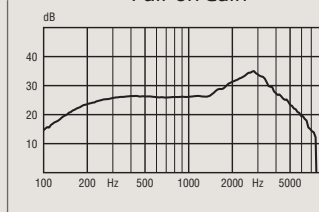
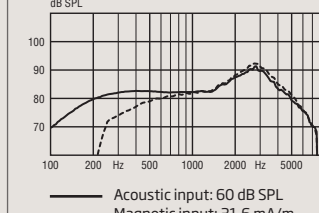
Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 		  	  
OSPL90	Peak 1600 Hz HFA-OSPL90	116 dB SPL 109 dB SPL 110 dB SPL	105 dB SPL 100 dB SPL 102 dB SPL
Full-on gain*	Peak 1600 Hz HFA-FOG	46 dB 37 dB 38 dB	35 dB 29 dB 30 dB
Reference test gain		30 dB	26 dB
Frequency range		110-9700 Hz	100-9200 Hz
Telecoil output (1600 Hz)	1 mA/m field 10 mA/m field SPLITS L/R	67 dB SPL 87 dB SPL -	- - 85/85 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz 800 Hz 1600 Hz	< 2 % < 3 % < 2 %	< 2 % < 2 % < 2 %
Equivalent input noise level	Omni Dir	21 dB SPL 28 dB SPL	18 dB SPL 27 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Opn Play 2

miniRITE R 60

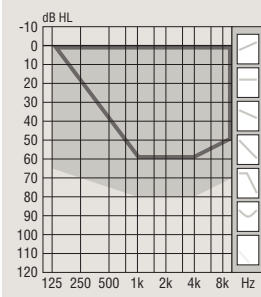
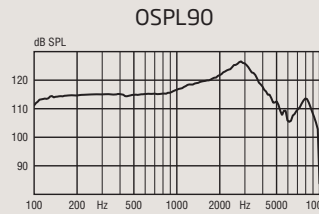
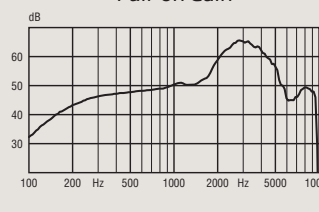
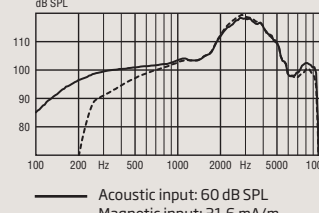
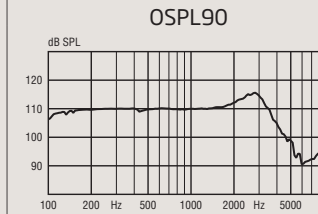
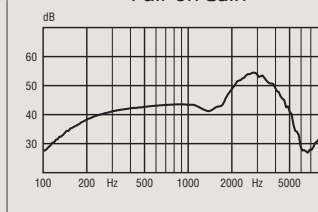
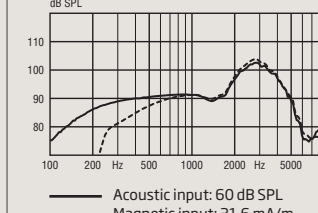
Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 		  	  
OSPL90	Peak 1600 Hz HFA-OSPL90	116 dB SPL 109 dB SPL 110 dB SPL	105 dB SPL 100 dB SPL 102 dB SPL
Full-on gain*	Peak 1600 Hz HFA-FOG	46 dB 37 dB 38 dB	35 dB 29 dB 30 dB
Reference test gain		30 dB	26 dB
Frequency range		110-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	1 mA/m field 10 mA/m field SPLITS L/R	67 dB SPL 87 dB SPL -	- - 85/85 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz 800 Hz 1600 Hz	< 2 % < 3 % < 2 %	< 2 % < 2 % < 2 %
Equivalent input noise level	Omni Dir	22 dB SPL 30 dB SPL	19 dB SPL 28 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Opn Play 1

miniRITE R 85

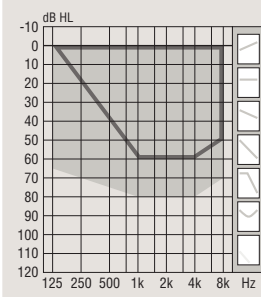
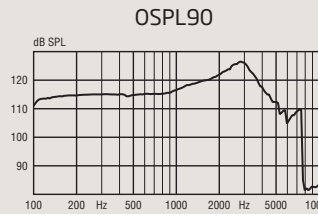
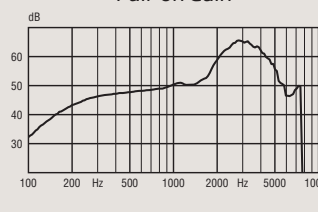
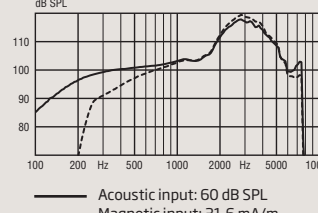
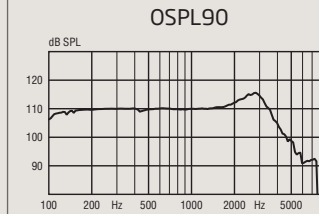
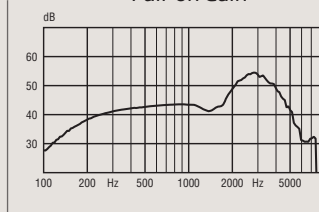
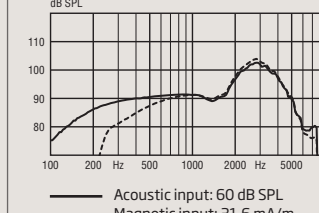
Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
  DSL Fitting Range ☐ Mold, Bass & Power dome ☐ Open dome Technical information Omnidirectional mode is used unless otherwise stated.		   — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m	   — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m
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
Frequency range		120-9500 Hz	100-8500 Hz
Telecoil output (1600 Hz)	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	25 dB SPL	20 dB SPL
	Dir	32 dB SPL	29 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Opn Play 2

miniRITE R 85

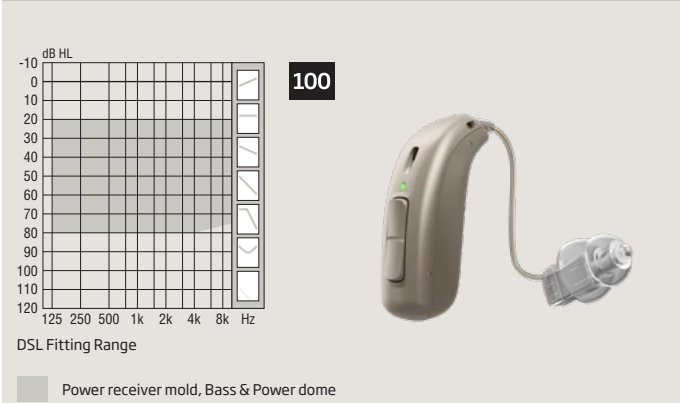
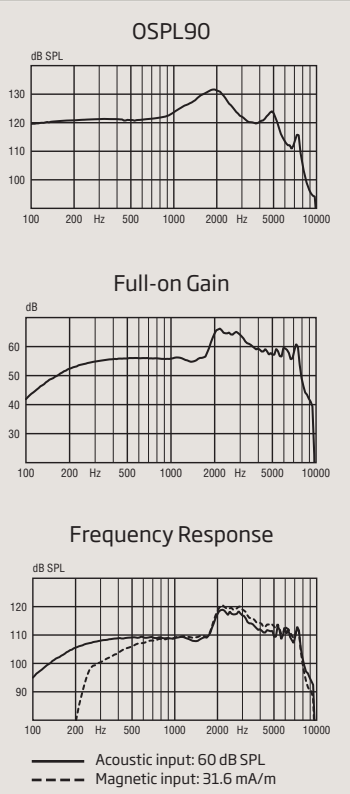
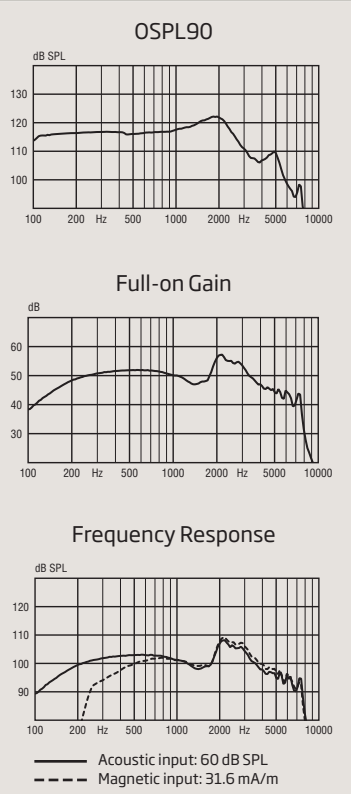
Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	2CC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
  DSL Fitting Range ☐ Mold, Bass & Power dome ☐ Open dome Technical information Omnidirectional mode is used unless otherwise stated.		   — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m	   — Acoustic input: 60 dB SPL - - - Magnetic input: 31.6 mA/m
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
Frequency range		120-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)	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	26 dB SPL	21 dB SPL
	Dir	33 dB SPL	30 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Opn Play 1

miniRITE R 100

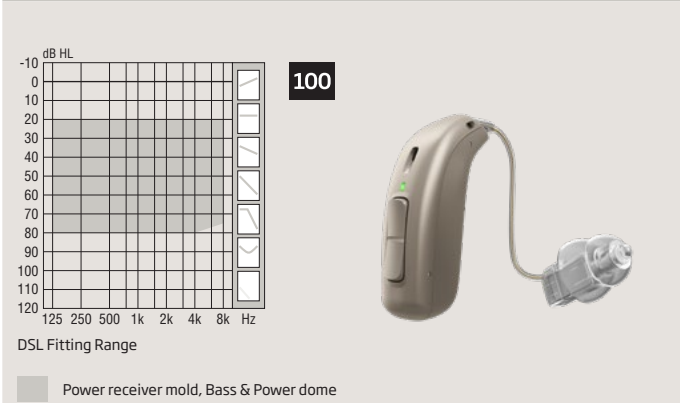
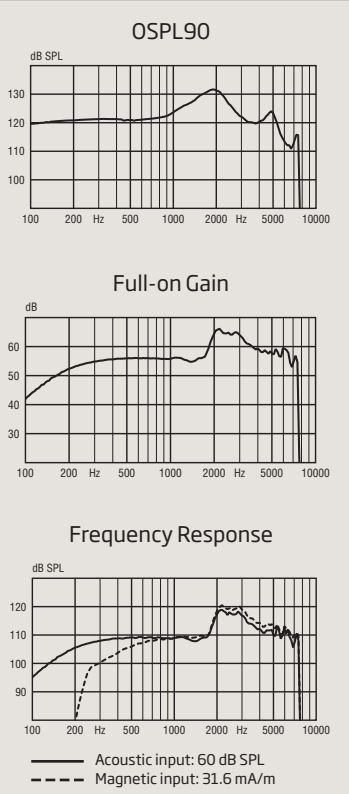
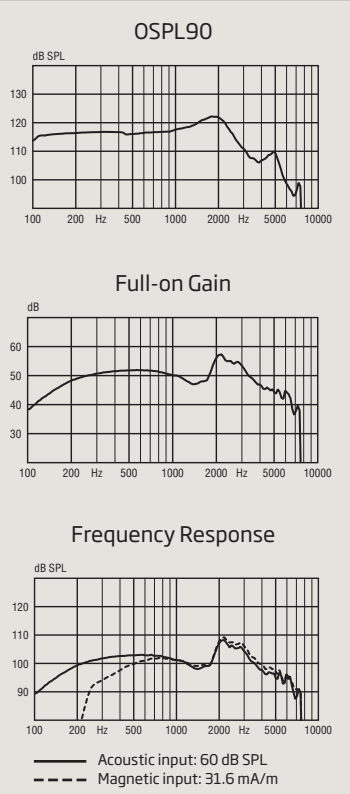
Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
			
Technical information Omnidirectional mode is used unless otherwise stated.			
Warning to the instrument dispenser The maximum output capability of the hearing aid 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 aid user.			
OSPL90		Peak 132 dB SPL 1600 Hz HFA-OSPL90 127 dB SPL	Peak 122 dB SPL 121 dB SPL 118 dB SPL
Full-on gain*		Peak 66 dB 1600 Hz HFA-FOG 59 dB	Peak 57 dB 48 dB 51 dB
Reference test gain		49 dB	42 dB
Frequency range		100-8500 Hz	100-8000 Hz
Telecoil output (1600 Hz)		1 mA/m field 86 dB SPL 10 mA/m field 106 dB SPL SPLITS L/R -	- - 103/103 dB SPL
Total harmonic distortion (Input 70 dB SPL)		500 Hz < 7 % 800 Hz < 4 % 1600 Hz < 2 %	< 2 % < 2 % < 2 %
Equivalent input noise level		Omni 23 dB SPL Dir 32 dB SPL	19 dB SPL 30 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Opn Play 2

miniRITE R 100

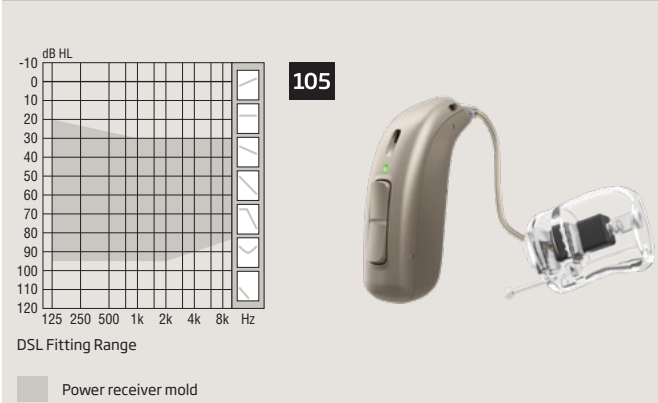
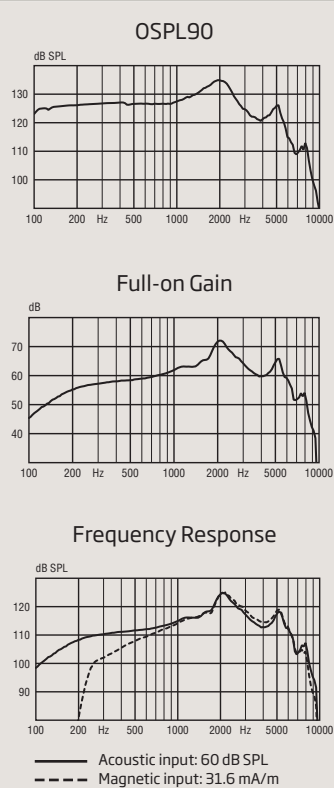
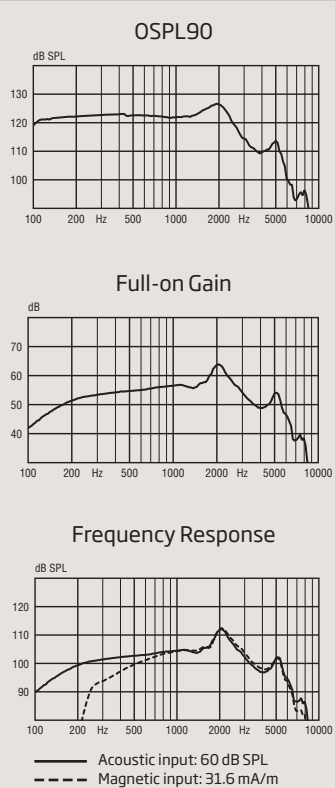
Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
			
Technical information Omnidirectional mode is used unless otherwise stated.			
Warning to the instrument dispenser The maximum output capability of the hearing aid 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 aid user.			
OSPL90		Peak 132 dB SPL 1600 Hz HFA-OSPL90 127 dB SPL	Peak 122 dB SPL 121 dB SPL 118 dB SPL
Full-on gain*		Peak 66 dB 1600 Hz HFA-FOG 59 dB	Peak 57 dB 48 dB 51 dB
Reference test gain		49 dB	42 dB
Frequency range		100-7500 Hz	100-7500 Hz
Telecoil output (1600 Hz)		1 mA/m field 86 dB SPL 10 mA/m field 106 dB SPL SPLITS L/R -	- - 103/103 dB SPL
Total harmonic distortion (Input 70 dB SPL)		500 Hz < 7 % 800 Hz < 4 % 1600 Hz < 2 %	< 2 % < 2 % < 2 %
Equivalent input noise level		Omni 23 dB SPL Dir 32 dB SPL	19 dB SPL 30 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Opn Play 1

miniRITE R 105

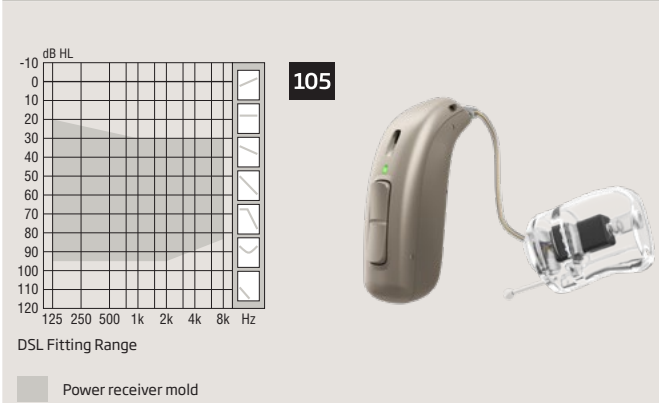
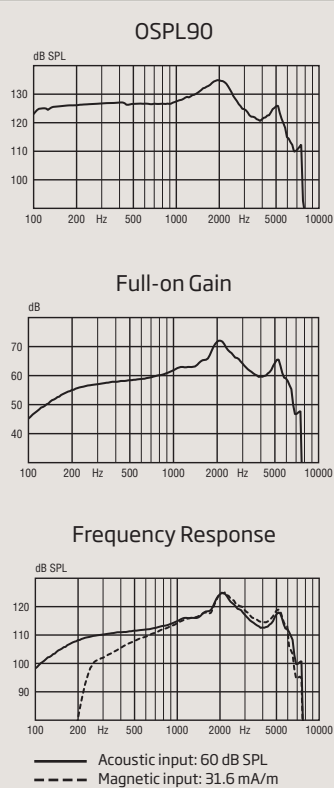
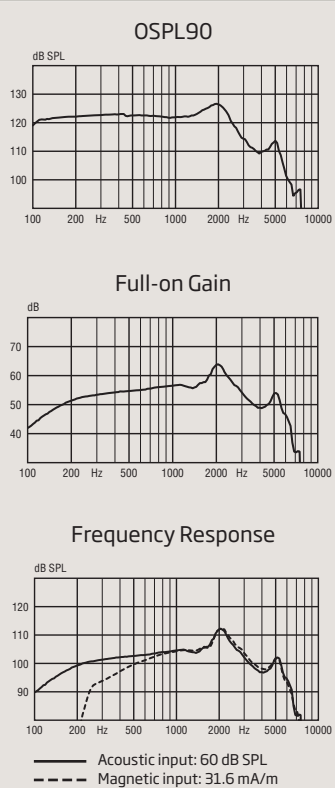
Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
			
Technical information Omnidirectional mode is used unless otherwise stated.			
Warning to the instrument dispenser The maximum output capability of the hearing aid 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 aid user.			
OSPL90		Peak 135 dB SPL 1600 Hz 132 dB SPL HFA-OSPL90 130 dB SPL	Peak 127 dB SPL 125 dB SPL 122 dB SPL
Full-on gain*		Peak 72 dB 1600 Hz 65 dB HFA-FOG 65 dB	Peak 64 dB 57 dB 57 dB
Reference test gain		58 dB	46 dB
Frequency range		100-8200 Hz	100-7800 Hz
Telecoil output (1600 Hz)		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 % 800 Hz < 2 % 1600 Hz < 3 %	< 2 % < 2 % < 2 %
Equivalent input noise level		Omni 18 dB SPL Dir 28 dB SPL	18 dB SPL 29 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Opn Play 2

miniRITE R 105

Technical data		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
			
Technical information Omnidirectional mode is used unless otherwise stated.			
Warning to the instrument dispenser The maximum output capability of the hearing aid 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 aid user.			
OSPL90		Peak 135 dB SPL 1600 Hz 132 dB SPL HFA-OSPL90 130 dB SPL	Peak 127 dB SPL 125 dB SPL 122 dB SPL
Full-on gain*		Peak 72 dB 1600 Hz 65 dB HFA-FOG 65 dB	Peak 64 dB 57 dB 57 dB
Reference test gain		58 dB	46 dB
Frequency range		100-7500 Hz	100-6500 Hz
Telecoil output (1600 Hz)		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 % 800 Hz < 2 % 1600 Hz < 3 %	< 2 % < 2 % < 2 %
Equivalent input noise level		Omni 18 dB SPL Dir 28 dB SPL	18 dB SPL 29 dB SPL
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours**		24	

* 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.

** Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Notes

This image shows a full page of white paper with horizontal grey ruling lines. The word "Notes" is printed at the top left corner. A vertical pink margin line is visible on the far left edge.



SBO Hearing A/S
Kongebakken 9
DK-2765 Smørum
Denmark

Headquarters
Oticon A/S
Kongebakken 9
DK-2765 Smørum
Denmark

22730405 / 2021.03.25 / v1