OTICON | **Real**

Technical data sheet

miniRITE R

60 85 100 105

		Real 1	Real 2	Real 3
Speech Understanding	MoreSound Intelligence™ 2.0	Level 1	Level 2	Level 3
	- Environment configuration	5 Options	5 Options	3 Options
	- Virtual Outer Ear	3 Configurations	1 Configuration	1 Configuration
	- Spatial Balancer	100%	60%	60%
	- Neural Noise Suppression, Difficult / Easy	10 dB / 4 dB	6 dB / 2 dB	6 dB / 0 dB
	- Sound Enhancer	3 Configurations	2 Configurations	1 Configuration
	- Wind & Handling Stabilizer	•	•	•
	MoreSound Amplifier™ 2.0	•	•	•
	- SuddenSound Stabilizer	6 Configurations	5 Configurations	4 Configurations
	Feedback Prevention	MoreSound Optimizer™ & Feedback shield	MoreSound Optimizer™ & Feedback shield	MoreSound Optimizer™ & Feedback shield
	Spatial Sound™	4 Estimators	2 Estimators	2 Estimators
	Soft Speech Booster	•	•	•
	Frequency lowering	Speech Rescue™	Speech Rescue™	Speech Rescue™
Sound Quality	Clear Dynamics	•	•	-
	Better-Ear Priority	•	•	-
	Fitting Bandwidth[1]	10 kHz	8 kHz	8 kHz
	Bass Boost (streaming)	•	•	•
	Processing Channels	64	48	48
Personalization & Optimizing Fitting	Fitting Bands	24	20	18
	Multiple Directionality options	•	•	•
	Adaptation Management	•	•	•
	Fitting Formulas	VAC+, NAL-NL1/ NAL-NL2, DSL v5	VAC+, NAL-NL1/ NAL-NL2, DSL v5	VAC+, NAL-NL1/ NAL-NL2, DSL v5
Connecting to the world	Oticon Companion app	•	•	•
	Hands-free communication[2]	•	•	•
	Direct streaming[3]	•	•	•
	ConnectClip	•	•	•
	EduMic	•	•	•
	Remote Control 3.0	•	•	•
	TV Adapter 3.0	•	•	•
	Phone Adapter 2.0	•	•	•
	Tinnitus SoundSupport™	•	•	•
	CROS/BiCROS support	•	•	•

1) Bandwidth accessible for gain adjustments during fitting
2) Hands-free communication is available with iPhone 11 or later running iOS 15.2 or later, and iPad running iPadOS® 15.2 or later
3) From select iPhone, iPad, iPod touch, and select Android devices with the Audio Streaming for Hearing Aids (ASHA) protocol

Operating and charging conditions
Temperature: +5°C to +40°C (41°F to 104°F)
Humidity: 5% to 93% relative humidity, 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)
Humidity: 5% to 93% relative humidity, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

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

Oticon Real™ miniRITE R offers a discreet design. It is powered by a rechargeable lithium-ion battery and features telecoil and a double push-button. Based on Bluetooth® Low Energy technology, it is a Made for iPhone® hearing aid and supports hands-free communication and direct streaming for iPhone®, iPad®, iPod touch® and select Android™ devices.

MoreSound Intelligence™ creates a more precise and natural representation of individual sounds with clearer and more distinct contrasts.

Oticon Real is built on the Polaris R™ platform, which utilizes faster detectors for powering new innovations used to optimize the audibility of the environmental sounds in the sound scene.

TwinLink NFMI + 2,4 GHz

Made for iPhone | iPad | iPod

Works with android

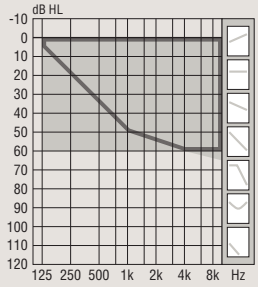
IP68

For information on compatibility, please visit www.oticon.com/support/compatibility

oticon
life-changing technology

Oticon Real 1

miniRITE R 60



60

Mold, Bass & Power dome

OpenBass dome

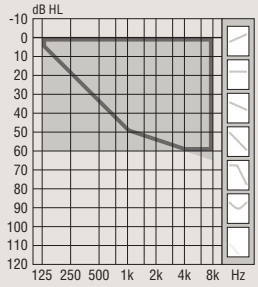
Technical information
Omnidirectional mode is used unless otherwise stated.

		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
OSPL90	Peak (dB SPL)	116	106
	1600 Hz (dB SPL)	110	102
	HFA-OSPL90 (dB SPL)	110	103
Full-on Gain[1]	Peak (dB)	46	36
	1600 Hz (dB)	37	29
	HFA-FOG (dB)	38	30
Reference test gain (dB)		31	26
Frequency range (Hz)		100-9600	100-9400
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	68	
	10 mA/m field (1600 Hz) (dB SPL)	88	
	HFA-SPLITS L/R (dB SPL)		83/83
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)	18	17
	Dir (dB SPL)	26	28
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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 Real 2 & 3

miniRITE R 60



60

Mold, Bass & Power dome

OpenBass dome

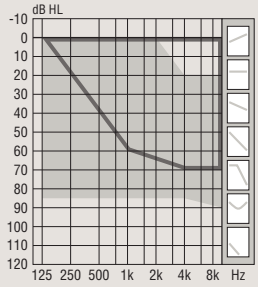
Technical information
Omnidirectional mode is used unless otherwise stated.

		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
OSPL90	Peak (dB SPL)	116	106
	1600 Hz (dB SPL)	110	102
	HFA-OSPL90 (dB SPL)	110	103
Full-on Gain[1]	Peak (dB)	46	36
	1600 Hz (dB)	37	29
	HFA-FOG (dB)	38	30
Reference test gain (dB)		31	26
Frequency range (Hz)		100-7500	100-7500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	68	
	10 mA/m field (1600 Hz) (dB SPL)	88	
	HFA-SPLITS L/R (dB SPL)		83/83
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)	19	17
	Dir (dB SPL)	26	29
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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 Real 1

miniRITE R 85



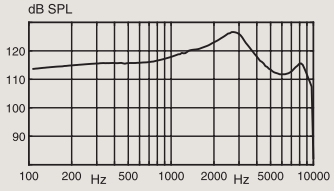
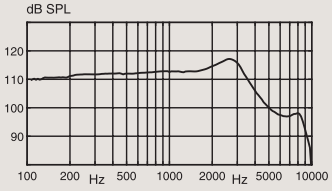
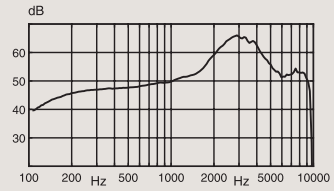
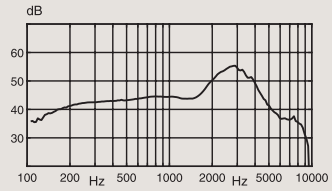
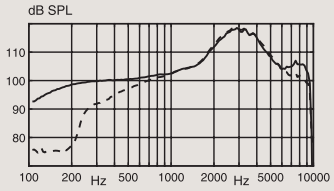
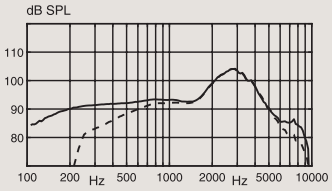
85

Mold, Bass & Power dome

OpenBass dome

Technical information
Omnidirectional mode is used unless otherwise stated.

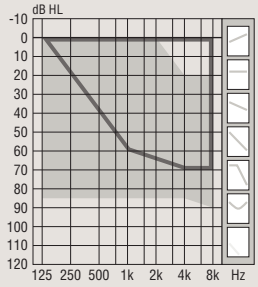
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

		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
		OSPL90	OSPL90
			
			Full-on Gain
			
			Frequency Response
			
OSPL90	Peak (dB SPL)	127	117
	1600 Hz (dB SPL)	121	113
	HFA-OSPL90 (dB SPL)	122	114
Full-on Gain[1]	Peak (dB)	66	55
	1600 Hz (dB)	53	45
	HFA-FOG (dB)	56	48
Reference test gain (dB)		46	37
Frequency range (Hz)		100-9500	100-8900
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	84	
	10 mA/m field (1600 Hz) (dB SPL)	104	
	HFA-SPLITS L/R (dB SPL)		94/94
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%)	<2	<2
	800 Hz (%)	<4	<2
	1600 Hz (%)	<5	<2
Equivalent input noise level	Omni (dB SPL)	21	18
	Dir (dB SPL)	29	28
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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 Real 2 & 3

miniRITE R 85



85

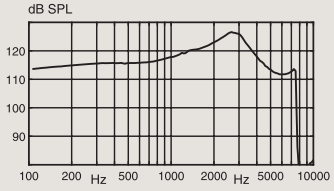
Mold, Bass & Power dome

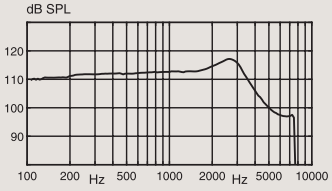
OpenBass dome

Technical information
Omnidirectional mode is used unless otherwise stated.

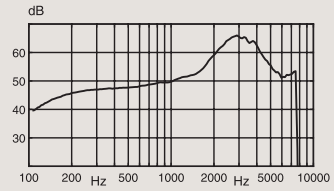
		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	**2CC Coupler** Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
OSPL90	Peak (dB SPL)	127	117
	1600 Hz (dB SPL)	121	113
	HFA-OSPL90 (dB SPL)	122	114
Full-on Gain[1]	Peak (dB)	66	55
	1600 Hz (dB)	53	45
	HFA-FOG (dB)	56	48
Reference test gain (dB)		46	37
Frequency range (Hz)		100-7500	100-7500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	84	
	10 mA/m field (1600 Hz) (dB SPL)	104	
	HFA-SPLITS L/R (dB SPL)		94/94
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%)	<2	<2
	800 Hz (%)	<4	<2
	1600 Hz (%)	<5	<2
Equivalent input noise level	Omni (dB SPL)	22	18
	Dir (dB SPL)	29	27
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

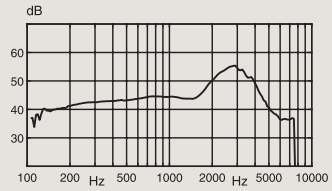
OSPL90



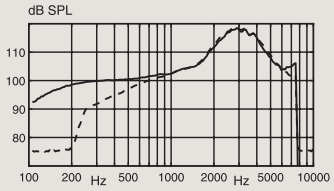


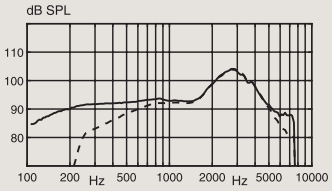
Full-on Gain





Frequency Response



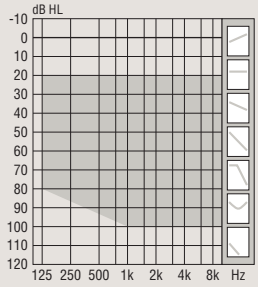


Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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 Real 1

miniRITE R 100



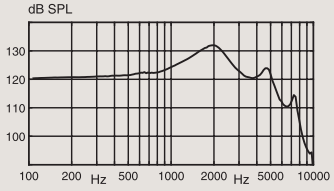
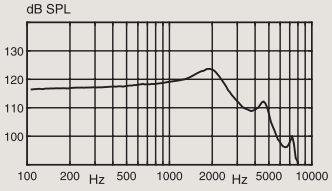
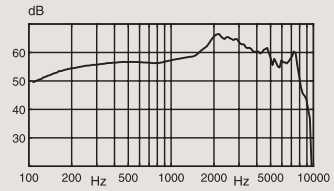
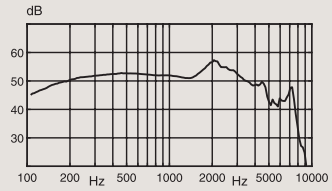
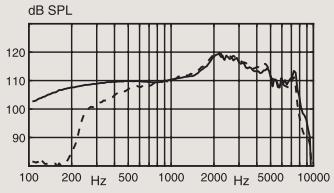
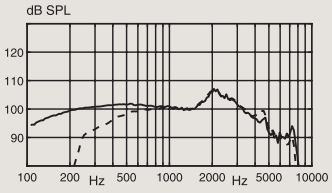
100

Power receiver mold, Bass & Power dome

Technical information
Omnidirectional mode is used unless otherwise stated.

Warning to the hearing aid 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 hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.

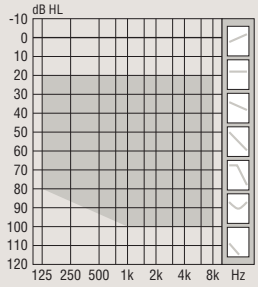
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

		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
		OSPL90	OSPL90
			
			Full-on Gain
			
			Frequency Response
			
OSPL90	Peak (dB SPL)	132	124
	1600 Hz (dB SPL)	130	122
	HFA-OSPL90 (dB SPL)	127	120
Full-on Gain[1]	Peak (dB)	66	57
	1600 Hz (dB)	60	52
	HFA-FOG (dB)	61	53
Reference test gain (dB)		53	42
Frequency range (Hz)		100-8900	100-7500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	91	
	10 mA/m field (1600 Hz) (dB SPL)	111	
	HFA-SPLITS L/R (dB SPL)		100/100
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%)	<9	<2
	800 Hz (%)	<6	<2
	1600 Hz (%)	<3	<2
Equivalent input noise level	Omni (dB SPL)	17	16
	Dir (dB SPL)	26	28
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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 Real 2 & 3

miniRITE R 100



100

Power receiver mold, Bass & Power dome

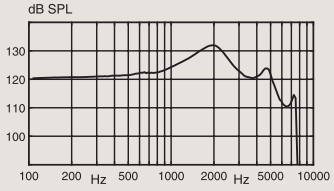
Technical information
Omnidirectional mode is used unless otherwise stated.

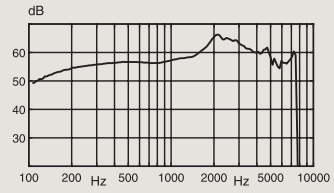
Warning to the hearing aid dispenser
The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.

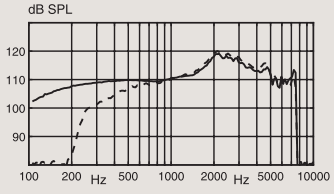
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

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

OSPL90

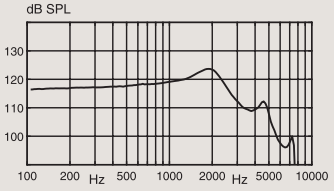




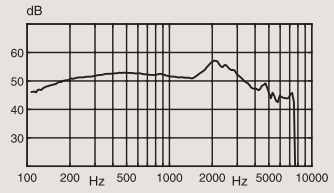


2CC Coupler
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

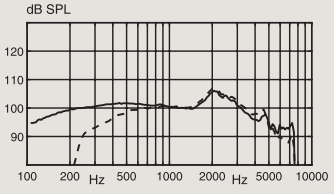
OSPL90



Full-on Gain



Frequency Response



OSPL90	Peak (dB SPL)	132	124
	1600 Hz (dB SPL)	130	122
	HFA-OSPL90 (dB SPL)	127	120
Full-on Gain[1]	Peak (dB)	66	57
	1600 Hz (dB)	60	52
	HFA-FOG (dB)	61	53
Reference test gain (dB)		53	42
Frequency range (Hz)		100-7500	100-7500
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	91	
	10 mA/m field (1600 Hz) (dB SPL)	111	
	HFA-SPLITS L/R (dB SPL)		100/100
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%)	<9	<2
	800 Hz (%)	<6	<2
	1600 Hz (%)	<3	<2
Equivalent input noise level	Omni (dB SPL)	17	17
	Dir (dB SPL)	26	29
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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 Real 1

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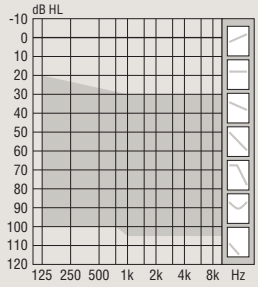


105

Power receiver mold

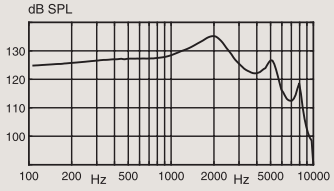
Technical information
Omnidirectional mode is used unless otherwise stated.

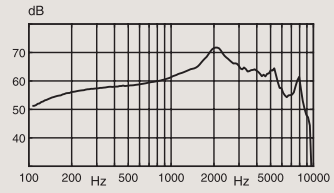
Warning to the hearing aid dispenser
The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.

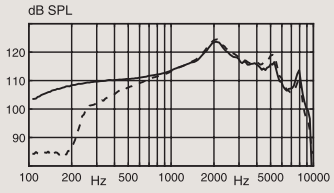
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

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

OSPL90

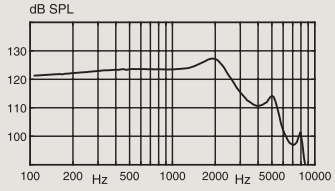




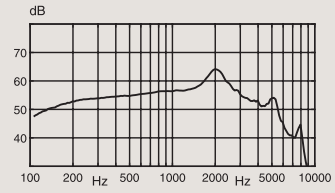


2CC Coupler
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

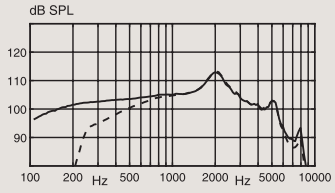
OSPL90



Full-on Gain



Frequency Response



		Ear Simulator	2CC Coupler
OSPL90	Peak (dB SPL)	135	127
	1600 Hz (dB SPL)	133	126
	HFA-OSPL90 (dB SPL)	131	123
Full-on Gain[1]	Peak (dB)	72	64
	1600 Hz (dB)	66	59
	HFA-FOG (dB)	65	58
Reference test gain (dB)		58	47
Frequency range (Hz)		100-9100	100-7900
Telecoil output	1 mA/m field (1600 Hz) (dB SPL)	96	
	10 mA/m field (1600 Hz) (dB SPL)	116	
	HFA-SPLITS L/R (dB SPL)		105/105
Total harmonic distortion (Input 70 dB SPL)	500 Hz (%)	<2	<2
	800 Hz (%)	<2	<2
	1600 Hz (%)	<4	<2
Equivalent input noise level	Omni (dB SPL)	16	16
	Dir (dB SPL)	25	28
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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 Real 2 & 3

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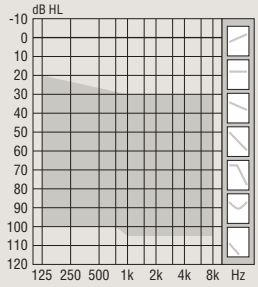


105

Power receiver mold

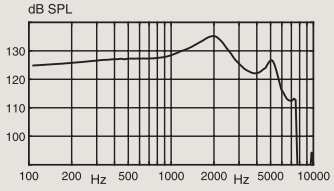
Technical information
Omnidirectional mode is used unless otherwise stated.

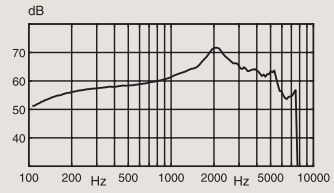
Warning to the hearing aid dispenser
The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 711). Special care should be exercised in selecting and fitting the hearing aid, as there may be risk of impairing the remaining hearing of the hearing aid user.

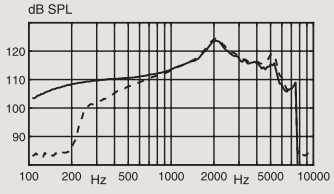
Acoustic input: 60 dB SPL
Magnetic input: 31.6 mA/m

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

OSPL90

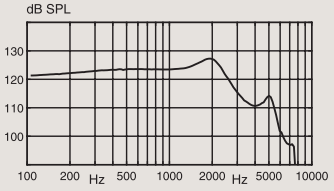




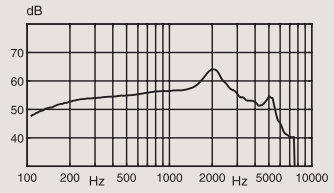


2CC Coupler
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006

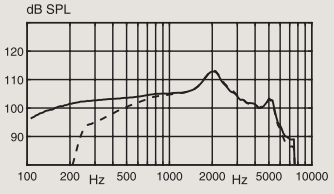
OSPL90



Full-on Gain



Frequency Response



		Ear Simulator	2CC Coupler
OSPL90	Peak (dB SPL)	135	127
	1600 Hz (dB SPL)	133	126
	HFA-OSPL90 (dB SPL)	131	123
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	10 mA/m field (1600 Hz) (dB SPL)	116	
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	800 Hz (%)	<2	<2
	1600 Hz (%)	<4	<2
Equivalent input noise level	Omni (dB SPL)	16	16
	Dir (dB SPL)	25	28
Battery		Lithium-ion	Lithium-ion
Expected operating time, hours[2]		24	

1) Measured with the gain control of the hearing aids set to their 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 60118-0:1983+A1:1994 but without influence of feedback.
2) 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

Notes

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263412US / 2022.11.07 / v1