

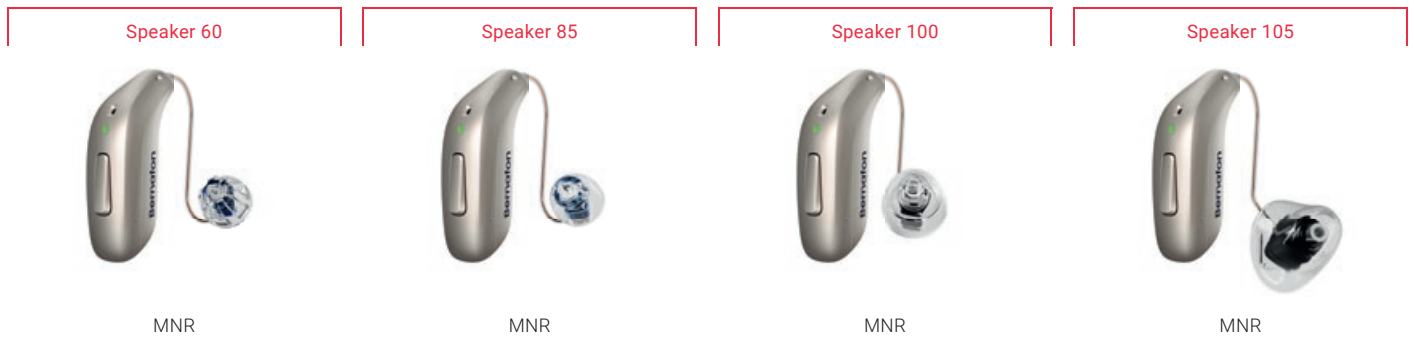
# TECHNICAL DATA

## Encanta 400 | 300 | 200

### miniRITE

The Bernafon Encanta is a miniRITE (MNR) rechargeable hearing instrument designed for users with slight to profound hearing loss. It includes LE Audio and Bluetooth® Low Energy and supports hands-free communication and direct streaming

for iPhone®, iPad®, Mac® and select Android™ devices. It is available with the miniFit Detect speaker system, which includes four power levels, and is compatible with a variety of domes and custom molds.



#### Technical features

- Hands-free communication<sup>1</sup>
- Bluetooth Low Energy technology
- LE Audio
- NFMI (Near-Field Magnetic Induction)
- Single push-button
- miniFit Detect speakers
- LED visual indicator
- Pulsing LED
- Faster charging

#### Accessories

- Bernafon App
- RC-A (remote control)
- TV-A (TV adapter)
- SoundClip-A
- Bernafon Charger miniRITE (MNR)

For information on compatibility, please visit [www.bernafon.com/compatibility](http://www.bernafon.com/compatibility)

**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

**Transportation and storage conditions**  
Temperature and humidity shall not exceed the mentioned 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

1) Hands-free communication is available on select devices

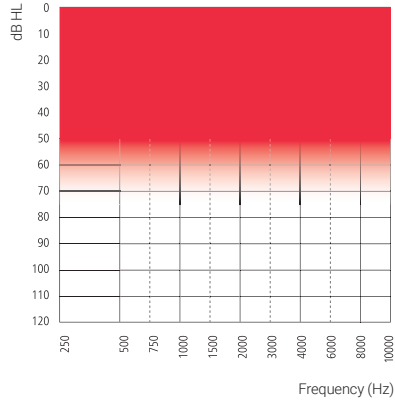
**WARNING:** No modification of this equipment is allowed.

Apple, the Apple logo, iPhone, iPad, Mac and the Mac logo are trademarks of Apple Inc., registered in the U.S. and other countries. Use of the Made for Apple badge means that an accessory has been designed to connect specifically to the Apple product(s) identified in the badge, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

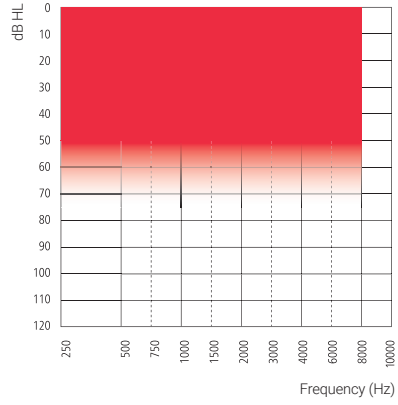


# Fitting ranges

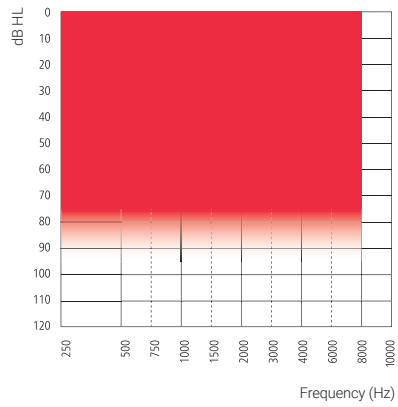
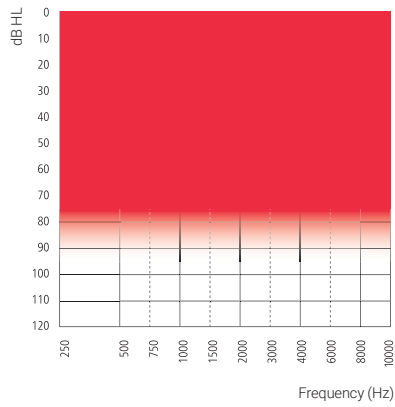
Bernafon Encanta 400



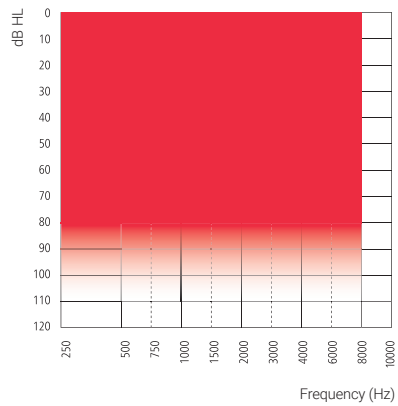
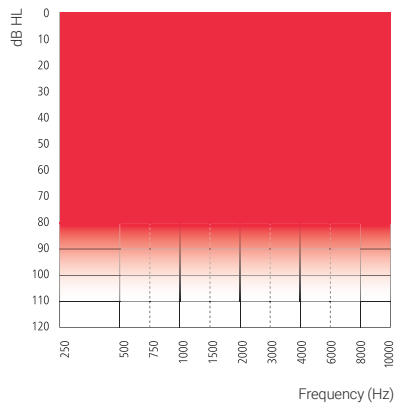
Bernafon Encanta 300 | 200



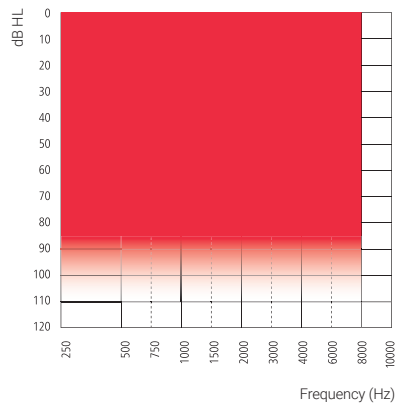
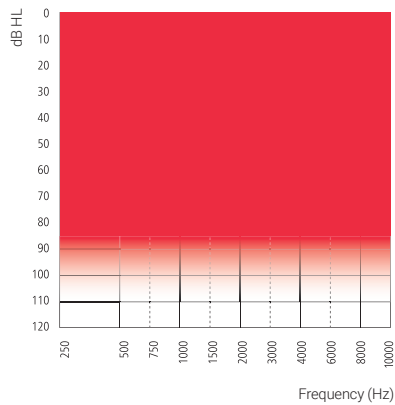
60



85



100



105

# Feature overview

	Encanta 400	Encanta 300	Encanta 200
<b>Smart sound processing</b>			
Smart Amplification	•	•	•
Frequency bandwidth	10 kHz	8 kHz	8 kHz
Smart Noise Management	•	•	•
Smart Noise Reduction	5 options	4 options	3 options
Directionality Preference	4 options	4 options	4 options
Smart Directionality States	3 options	2 options	-
Omni Preference	2 options	2 options	-
Smart Sensor	•	•	-
Speech and Noise Balancer	•	•	-
Speech Balancer	3 options	2 options	•
Noise Balancer	4 options	2 options	-
Smart Feedback Canceller	•	•	•
Wind   Contact Noise Protector	•	•	•
<b>Audibility and comfort</b>			
Low Frequency Enhancer	•	•	•
Frequency Composition™	•	•	•
Binaural Noise Manager	•	•	•
Transient Noise Reduction	6 options	5 options	4 options
Dynamic Range Extender	•	•	-
Soft Noise Manager	•	•	•
<b>Directionality options</b>			
Smart Directionality	•	•	•
Adaptive Full Directionality	•	•	•
Fixed Directionality	•	•	•
Fixed Omni	•	•	•
Omni Directional	•	•	-
Pinna Effect	•	•	-
<b>Individualization</b>			
Personalization	•	•	•
Fitting bands	24	20	18
Program options/memories	13/4	11/4	11/4
Music Experience	•	•	•
Binaural coordination: VC, program changes	•	•	•
Automatic Adaptation Manager	•	•	•
Transition	4 options	3 options	2 options
Data Logging	•	•	•
Conversation Data	•	•	•
Spoken indicators	•	•	•
Tap control	•	•	•
Tinnitus SoundSupport	•	•	•
CROS compatibility	•	•	•

# Encanta 400 miniRITE

# Ear Simulator

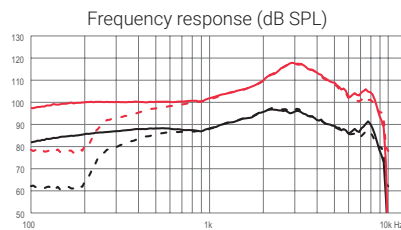
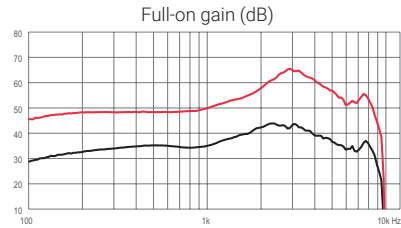
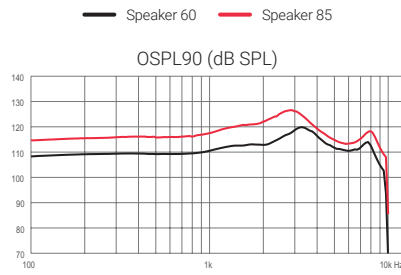
Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995/AMD1:1998 CSV and IEC 60318-4:2010



**Technical information**  
Omnidirectional mode is used unless otherwise stated.

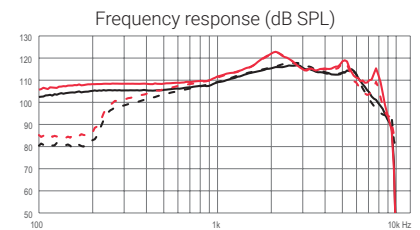
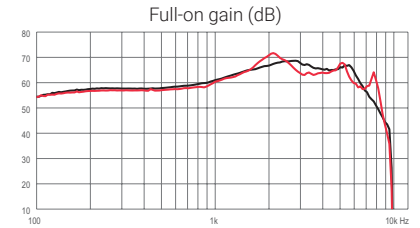
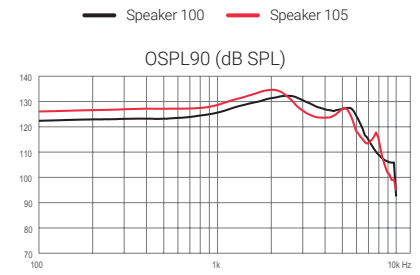
**Speaker 60 / 100**  
— Acoustic input: 60 dB SPL  
- - - Magnetic input: 31.6 mA/m

**Speaker 85 / 105**  
— Acoustic input: 60 dB SPL  
- - - Magnetic input: 31.6 mA/m



Speaker 60

Speaker 85



Speaker 100

Speaker 105

OSPL90, Peak (dB SPL)	120	127	132	135
OSPL90, 1600 Hz (dB SPL)	113	121	130	133
OSPL90, HFA (dB SPL)	113	121	129	131
Full-on gain, Peak (dB)	44	66	69	72
Full-on gain, 1600 Hz (dB) <sup>1</sup>	40	54	65	65
Full-on gain, HFA (dB)	39	56	65	65
Reference test gain (dB)	33	46	54	57
Frequency range (Hz)	<100-9400	<100-9400	<100-8800	<100-8800
Telecoil output, 1 mA/m field (1600 Hz) (dB SPL)	71	85	97	97
Telecoil output, 10 mA/m field (1600 Hz) (dB SPL)	91	105	117	117
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2	<3	<3
Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%)	<3	<3	<2	<3
Equivalent input noise level, Omni (dB SPL)	17	22	16	17
Equivalent input noise level, Dir (dB SPL)	27	30	26	27
Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
Expected operating time, hours <sup>2</sup>	24	24	24	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.

# Encanta 400 miniRITE

# 2CC Coupler

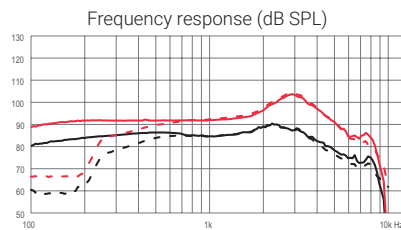
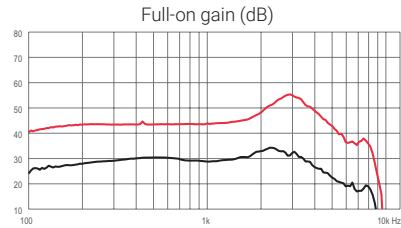
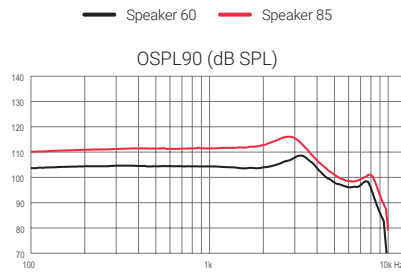
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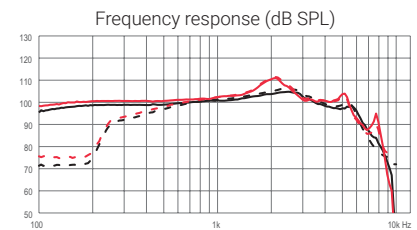
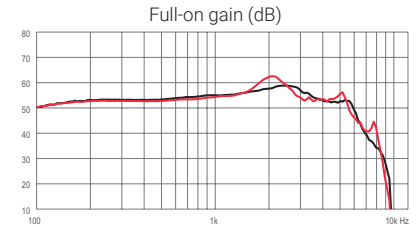
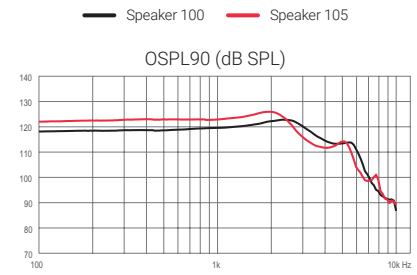
**Speaker 60 / 100**  
— Acoustic input: 60 dB SPL  
- - - Magnetic input: 31.6 mA/m

**Speaker 85 / 105**  
— Acoustic input: 60 dB SPL  
- - - Magnetic input: 31.6 mA/m



Speaker 60

Speaker 85



Speaker 100

Speaker 105

OSPL90, Peak (dB SPL)	109	116	123	126
OSPL90, 1600 Hz (dB SPL)	104	112	121	125
OSPL90, HFA (dB SPL)	105	113	121	123
Full-on gain, Peak (dB)	34	55	59	63
Full-on gain, 1600 Hz (dB) <sup>1</sup>	31	45	57	57
Full-on gain, HFA (dB)	31	47	57	57
Reference test gain (dB)	27	36	43	45
Frequency range (Hz)	<100-8400	<100-8500	<100-7100	<100-8200
Telecoil output, 1 mA/m field (1000 Hz) (dB SPL)	60	75	86	86
Telecoil output, HFA SPLITS L/R (dB SPL)	87	96	103	105
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	18	19	16	17
Equivalent input noise level, Dir (dB SPL)	30	30	29	29
Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
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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.

# Encanta 300 | 200 miniRITE

# Ear Simulator

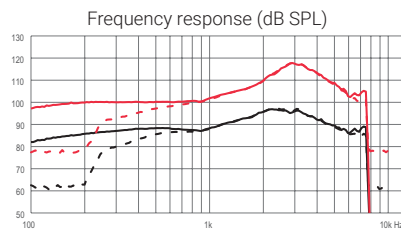
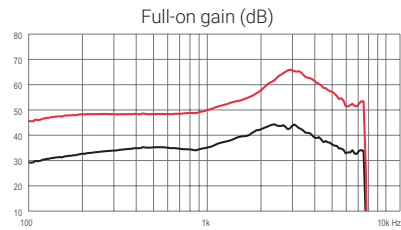
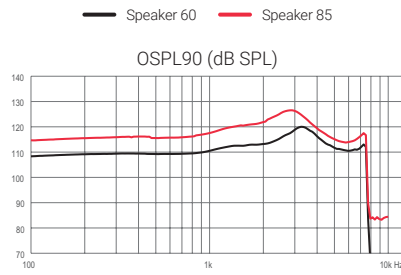
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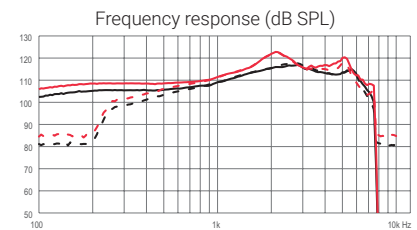
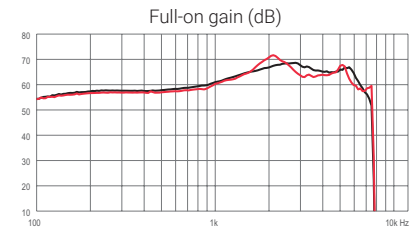
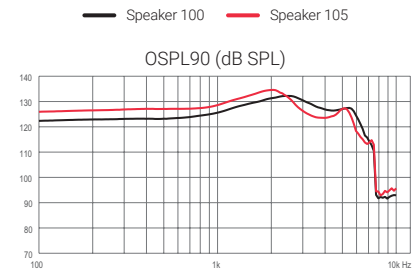
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— Acoustic input: 60 dB SPL  
- - - Magnetic input: 31.6 mA/m

**Speaker 85 / 105**  
— Acoustic input: 60 dB SPL  
- - - Magnetic input: 31.6 mA/m



Speaker 60

Speaker 85



Speaker 100

Speaker 105

OSPL90, Peak (dB SPL)	120	127	132	135
OSPL90, 1600 Hz (dB SPL)	113	121	130	133
OSPL90, HFA (dB SPL)	113	121	129	131
Full-on gain, Peak (dB)	44	66	69	72
Full-on gain, 1600 Hz (dB) <sup>1</sup>	40	54	65	65
Full-on gain, HFA (dB)	39	56	65	65
Reference test gain (dB)	33	46	54	57
Frequency range (Hz)	<100-7500	<100-7500	<100-7500	<100-7500
Telecoil output, 1 mA/m field (1600 Hz) (dB SPL)	71	85	97	97
Telecoil output, 10 mA/m field (1600 Hz) (dB SPL)	91	105	117	117
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
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Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
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# Encanta 300 | 200 miniRITE

# 2CC Coupler

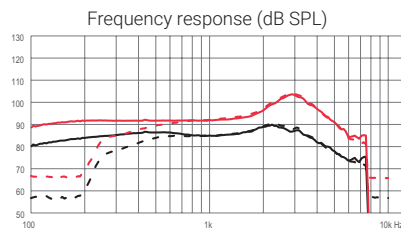
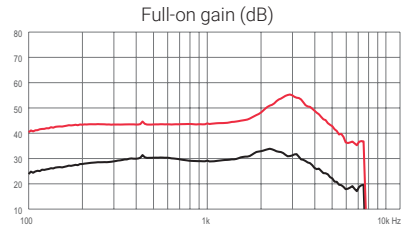
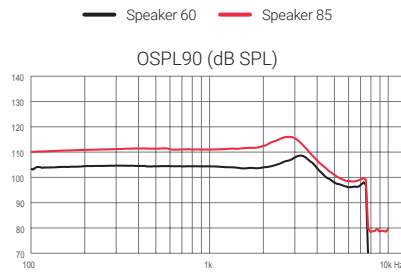
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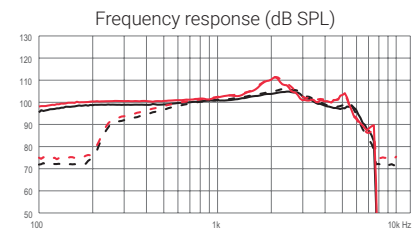
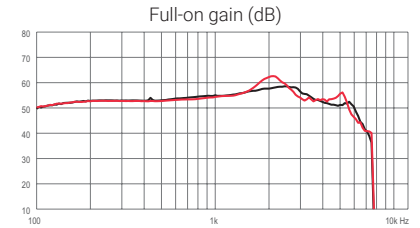
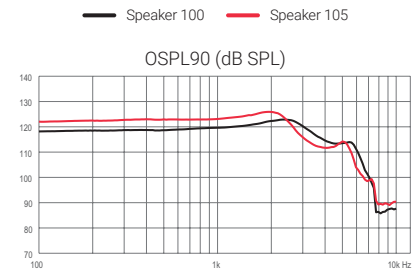
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**Speaker 85 / 105**  
— Acoustic input: 60 dB SPL  
- - - Magnetic input: 31.6 mA/m



Speaker 60

Speaker 85




Speaker 100

Speaker 105

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OSPL90, 1600 Hz (dB SPL)	104	112	121	125
OSPL90, HFA (dB SPL)	105	113	121	123
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Full-on gain, 1600 Hz (dB) <sup>1</sup>	31	45	57	57
Full-on gain, HFA (dB)	31	47	57	57
Reference test gain (dB)	27	36	43	45
Frequency range (Hz)	<100-7500	<100-7500	<100-7100	<100-7500
Telecoil output, 1 mA/m field (1000 Hz) (dB SPL)	60	75	86	86
Telecoil output, HFA SPLITS L/R (dB SPL)	87	96	103	105
Total harmonic distortion (Input 70 dB SPL), 500 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 70 dB SPL), 800 Hz (%)	<2	<2	<2	<2
Total harmonic distortion (Input 65 dB SPL), 1600 Hz (%)	<2	<2	<2	<2
Equivalent input noise level, Omni (dB SPL)	18	19	16	17
Equivalent input noise level, Dir (dB SPL)	30	30	29	29
Battery	Lithium-ion	Lithium-ion	Lithium-ion	Lithium-ion
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 SBO Hearing A/S  
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Denmark

[www.bernafon.com](http://www.bernafon.com)

Bernafon is part of the Demant Group.

