

Product information

Leox 7|3 BTE SP & BTE UP

Leox is Bernafon's most powerful True Environment Processing™ hearing instrument. It is designed for users with severe to profound hearing losses.

Leox includes the 2.4 GHz Bluetooth® Low Energy and NFMI technology, a telecoil, a double push button for volume changes, and a single push button for program changes. Leox is available with an earhook.

Super Power



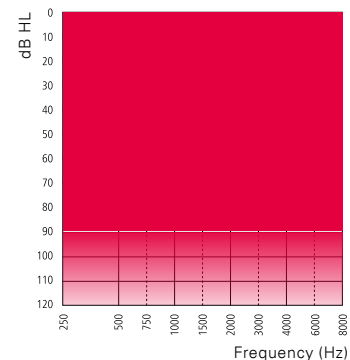
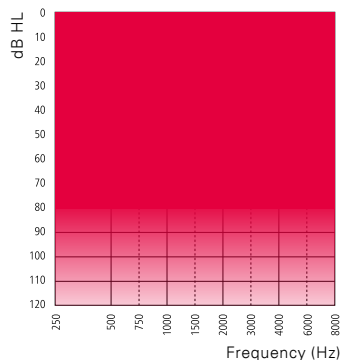
LX 7|3 BTE SP

Ultra Power



LX 7|3 BTE UP

Made for
iPhone | iPad | iPod



Technical features

- 2.4 GHz Bluetooth® Low Energy
- NFMI (near-field magnetic induction)
- 13 size battery for BTE SP
- 675 size battery for BTE UP
- Double push button and single push button
- Multicolor LED indicator
- Telecoil
- Hydrophobic coating
- IP68 rated

Accessories & options

- EasyControl-A app (for iOS and Android™)
- RC-A (remote control)
- TV-A (TV adapter)
- FittingLINK 3.0 (wireless programming interface)
- SoundClip-A
- Direct Audio Input (DAI) adapter 1000
- FM adapter 10
- Tamper-resistant battery drawer
- Damping element

Leox is a Made for iPhone®, iPad®, iPod® hearing aid, compatible with devices running iOS 11.0 or later. For information on compatibility, please visit www.bernafon.com/products/accessories.

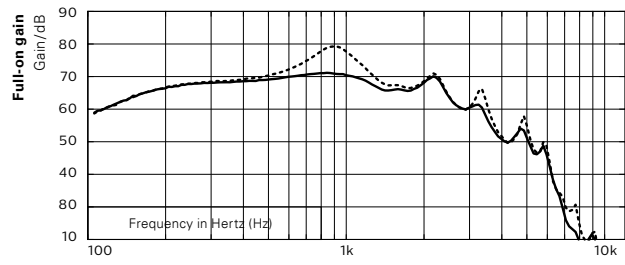
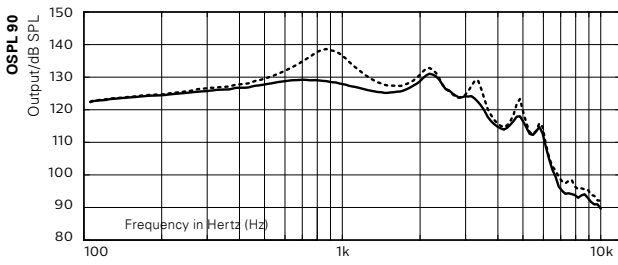
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bernafon[®]
Your hearing • Our passion

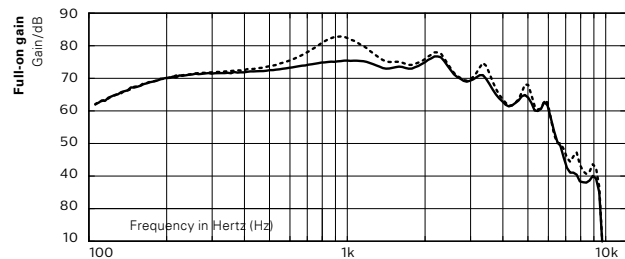
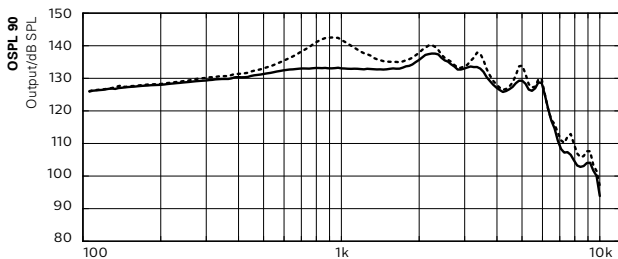
— Earhook damped
 Earhook undamped

2cc coupler



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	131	139*
OSPL90, 1600 Hz (dB SPL)	125	127
OSPL90, HFA (dB SPL)	127	130
Full-on gain, peak (dB)	71	79
Full-on gain, 1600 Hz (dB)	66	67
Full-on gain, HFA (dB)	67	70
Reference test gain (dB)	50	53
Quiescent current (mA)	1.4	1.4
Operating current (mA)	2.2	2.5
Distortion 500/800/1600 Hz (%)	<2/3/<2	4/<2/<2
Frequency range (Hz)	100-6300	100-6100
Equivalent input noise ¹⁾ dB(A)	18	19
Telecoil 1 mA/m 1000 Hz, IEC (dB SPL)	105	110
Telecoil HFA SPLITS (dB SPL)	111	115

Ear simulator



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	138*	143*
OSPL90, 1600 Hz (dB SPL)	133*	135*
OSPL90, HFA (dB SPL)	134*	138*
Full-on gain, peak (dB)	77	83
Full-on gain, 1600 Hz (dB)	74	75
Full-on gain, HFA (dB)	74	77
Reference test gain (dB)	58	61
Quiescent current (mA)	1.4	1.4
Operating current (mA)	1.6	1.6
Battery size	13	13
Distortion 500/800/1600 Hz (%)	<2/4/3	4/<2/<2
Frequency range (Hz)	100-6700	100-6500
Equivalent input noise ¹⁾ dB(A)	17	18
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	107	109

¹⁾Technical data measured with expansion, corresponding to the test box measurement settings.

“2cc” refers to a coupler according to IEC 60318-5:2006. “Ear simulator” refers to a coupler according to IEC 60318-4:2010. Applied versions: IEC 60118-0 /A1:1994, IEC 60118-1 /A1:1998, IEC 60118-7: 2005, ANSI S3.22: 2014, IEC 60118-0:2015

Full-on gain is 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.

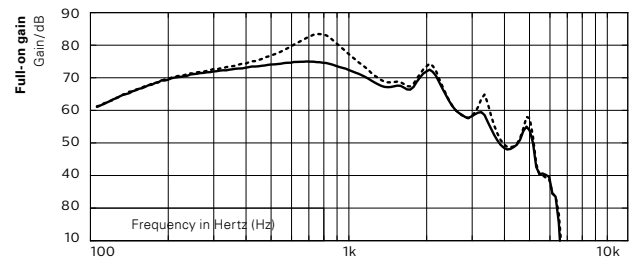
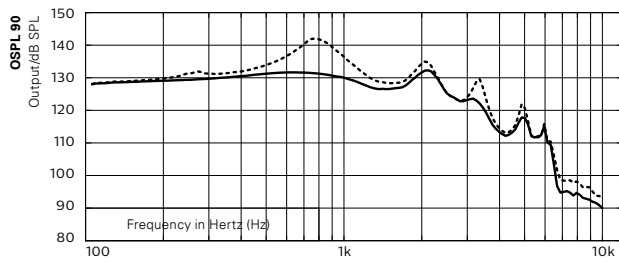
Warning to the instrument dispenser

The maximum output capability of the hearing aid may exceed 132 dB SPL (IEC 60318-4).

* 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.

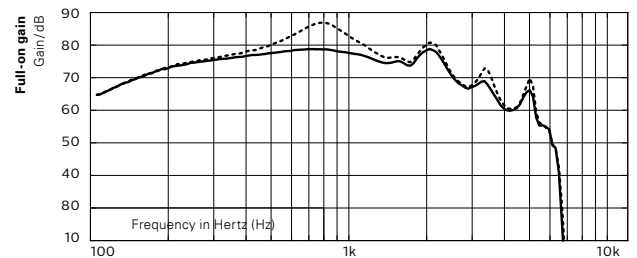
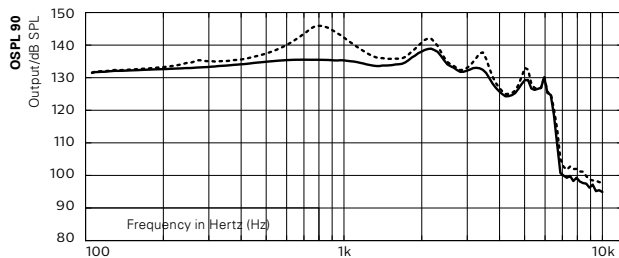
— Earhook damped
 Earhook undamped

2cc coupler



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	132	142*
OSPL90, 1600 Hz (dB SPL)	127	128
OSPL90, HFA (dB SPL)	127	130
Full-on gain, peak (dB)	75	83
Full-on gain, 1600 Hz (dB)	68	69
Full-on gain, HFA (dB)	67	69
Reference test gain (dB)	51	53
Quiescent current (mA)	1,5	1,5
Operating current (mA)	3,6	4,1
Distortion 500/800/1600 Hz (%)	4/4/<2	9/<2/3
Frequency range (Hz)	100-5300	100-5300
Equivalent input noise ¹⁾ dB(A)	21	23
Telecoil 1 mA/m 1000 Hz, IEC (dB SPL)	106	110
Telecoil HFA SPLITS (dB SPL)	112	112

Ear simulator



	Earhook damped	Earhook undamped
OSPL90, peak (dB SPL)	139*	146*
OSPL90, 1600 Hz (dB SPL)	134*	136*
OSPL90, HFA (dB SPL)	134*	138*
Full-on gain, peak (dB)	79	87
Full-on gain, 1600 Hz (dB)	75	76
Full-on gain, HFA (dB)	74	77
Reference test gain (dB)	59	61
Quiescent current (mA)	1,5	1,5
Operating current (mA)	1,8	1,8
Battery size	675	675
Distortion 500/800/1600 Hz (%)	4/6/4	11/<2/3
Frequency range (Hz)	100-6000	100-6000
Equivalent input noise ¹⁾ dB(A)	17	19
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	108	111

¹⁾ Technical data measured with expansion, corresponding to the test box measurement settings.

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Feature overview

	Leox 7	Leox 3
DECS™ (Dynamic Environment Control System™)		
Dynamic Noise Management™		
Dynamic Directionality	Medium focus	Low focus
Dynamic Noise Reduction	4 settings	●
Dynamic Amplification Control™		
Speech in Noise	4 settings	–
Comfort in Noise	2 settings	–
Dynamic Speech Processing™		
ChannelFree™	●	●
Speech Cue Priority™	●	●
Dynamic Feedback Canceller™		
	●	●
Speech		
Low Frequency Enhancer	●	●
Frequency Composition ^{next}	●	●
Comfort		
Binaural Noise Manager	●	–
Transient Noise Reduction	3 options	●
Wind Noise Manager	●	●
Dynamic Range Extender	●	–
VC Step Size	●	●
Soft Noise Management	●	●
Processing		
Frequency bandwidth*	10 kHz	10 kHz
Fitting bands	14	10
Directionality controls		
Fixed Dir	●	●
Fixed Omni	●	●
Individualization		
Program options/memories	13/4	10/4
Binaural coordination: VC, program change, mute	●	●
Automatic Adaptation Manager	●	●
Transition Level	3 options	–
Data Logging	●	●
Multicolor LED	●	●
Tinnitus SoundSupport	●	●

* Highest processed audio frequency

Leox BTE SP & BTE UP can be programmed with Oasis^{next} 2019.2 or higher

Operating conditions

- Temperature: +1 °C to +40 °C (+34 °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:

- Temperature: –25 °C to +60 °C (–13 °F to +140 °F)
- Humidity: 5 % to 93 %, relative humidity, non-condensing
- Atmospheric pressure: 700 hPa to 1060 hPa



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