TECHNICAL DATA

Alpha XT 7 | 5 miniRITF T R

Bernafon Alpha XT takes Hybrid Technology™ to new levels. The miniRITE TR is an easy-to-use, rechargeable hearing instrument with a Li-ion battery to provide power for a full day of use, including direct audio streaming. It is a receiverin-the-ear hearing instrument designed for users with slight to profound hearing losses. It includes 2.4 GHz Bluetooth® Low Energy and NFMI technology, a telecoil, and double push button for volume and program changes. The miniRITE T R is available with the miniFit speaker system, which includes four power levels and a variety of domes and custom molds.

Speaker 60

MNR T R

Speaker 85

MNR T R



Technical features

- · Direct audio streaming¹
- · Hands-free communication²
- · 2.4 GHz Bluetooth® Low Energy
- · NFMI (near-field magnetic induction)
- · Double push-button
- · Telecoil
- · miniFit speakers
- · Hydrophobic coating
- · IP68 rated
- · LED visual indicator

Accessories

- · Bernafon App
- · RC-A (remote control)
- · TV-A (TV adapter)
- · SoundClip-A
- · Noahlink Wireless (wireless programming interface)

For information on compatibility, please visit 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:

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

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) From iPhone®, iPad®, iPod touch®, and selected Android™ devices with the Audio Streaming for Hearing Aids (ASHA) protocol 2) Available with select iPhone and iPad models

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.



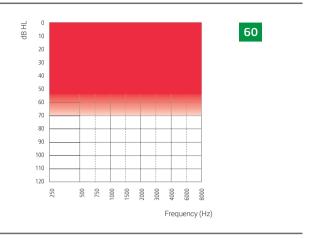


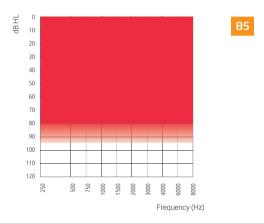


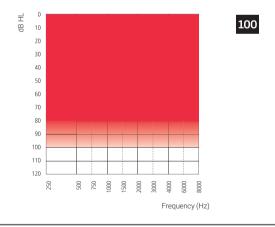


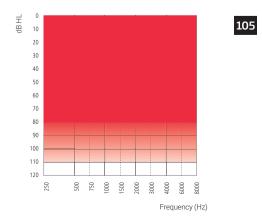
Fitting ranges

Bernafon Alpha XT 7 | 5









Feature overview

	Alpha XT 7	Alpha XT 5
Hybrid Technology™		
Hybrid Sound Processing™		•
Frequency bandwidth	8 kHz	8 kHz
Hybrid Balancing™	•	_
Speech Balancer	2 options	•
Noise Balancer	2 options	_
Hybrid Noise Management™	•	•
Smart Noise Reduction	4 options	3 options
Smart Directionality	4 options	4 options
Dynamic States	2 options	_
Omni States	2 options	_
Hybrid Feedback Canceller™		
Hybrid Sound Care™	•	•
Wind Contact Noise Protector	•	
Speech		
Low Frequency Enhancer		
Frequency Composition ^{nxt}		
Comfort		
Binaural Noise Manager		_
Transient Noise Reduction	5 options	4 options
Dynamic Range Extender		_
Soft Noise Manager		
Directionality controls		
Dynamic		
Adaptive Full Directionality		
Fixed Directionality		
Fixed Omni		
Omni Directional		-
True Directionality Plus		-
Individualization		
Personalization	•	
Fitting bands	20	18
Program options/memories	12/4	12/4
Music Experience		
Binaural coordination: VC, program changes		
Automatic Adaptation Manager		
Transition	3 options	2 options
Data Logging		
Conversation Data		
Spoken indicators		
Tinnitus SoundSupport		
CROS compatibility		

Alpha XT 7 | 5 miniRITE T R

Ear Simulator

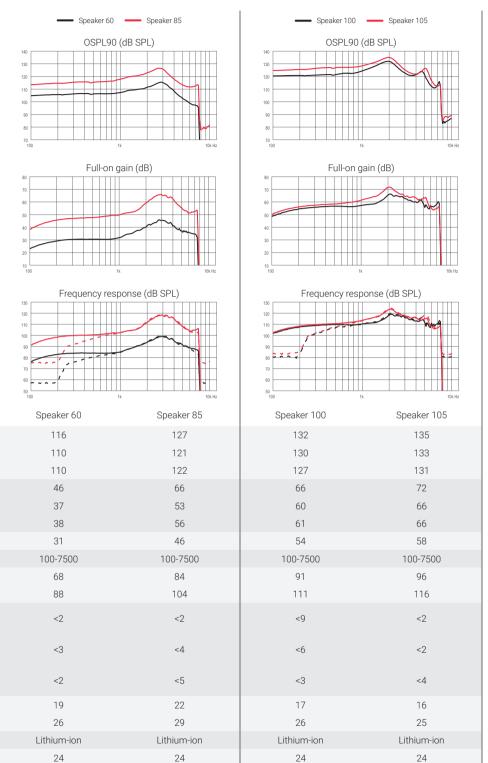
Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010



Technical informationOmnidirectional mode is used unless otherwise stated.



OSPL90, Peak (dB SPL) OSPL90, 1600 Hz (dB SPL) OSPL90, HFA (dB SPL) Full-on gain, Peak (dB) Full-on gain, 1600 Hz (dB) Full-on gain, HFA (dB) Reference test gain (dB) Frequency range (Hz) Telecoil output, 1 mA/m field (1600 Hz) (dB SPL) Telecoil output, 10 mA/m field (1600 Hz) (dB SPL) Total harmonic distortion (Input 70 dB SPL), 500 Hz (%) Total harmonic distortion (Input 70 dB SPL), 800 Hz (%) Total harmonic distortion (Input 70 dB SPL), 1600 Hz (%) Equivalent input noise level, Omni (dB SPL) Equivalent input noise level, Dir (dB SPL) Battery Expected operating time, hours2



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 instruments 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.

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.

Alpha XT 7 | 5 miniRITE T R

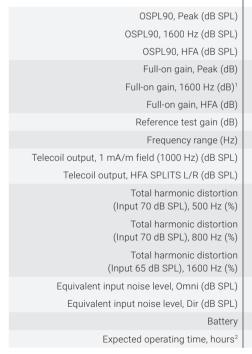
2CC Coupler

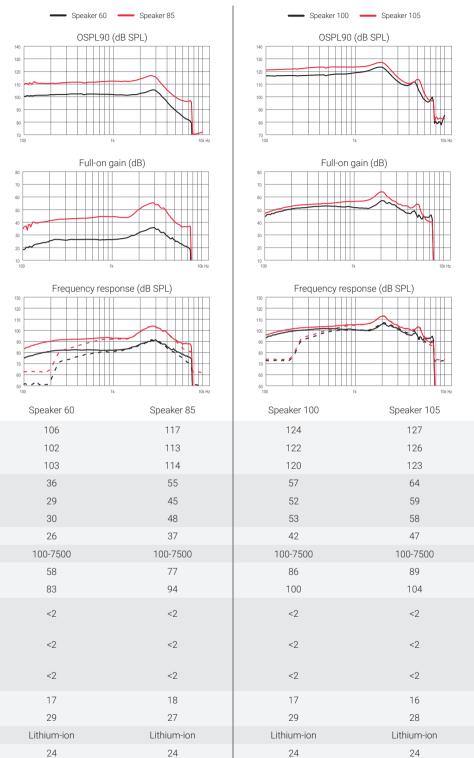
Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006



Technical informationOmnidirectional mode is used unless otherwise stated.







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 instruments 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.

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.

Charger, miniRITE T R

The charger for Alpha XT miniRITE T R uses inductive technology that allows contactless charging of two hearing instruments via induction coil. Furthermore, the magnetic connection in the charger prevents the hearing instruments

from falling out. When the hearing instruments are inserted into the charger, it automatically starts charging. The hearing instruments turn ON when they are removed from the charger.



Packaging set

- · Travel pouch
- · Instructions for use
- · Power supply plug

Charging time of lithium-ion battery

- · 3 hours = Fully charged
- 1 hour = 50% charged
- · 30 min = 25 % charged

¹ Power plug will vary from country to country

^{*} USB 2.0 high power (500 mA output) required

Designed for/compatibility	Alpha, Alpha XT, miniRITE T R	
Dimensions	Ø95 mm /total height of 39 mm (3.7 in / total height of 1.5 in)	
Weight	135 grams (5 oz)	
Color	Black	
Power supply plug	USB A	
Status indications	LED on charger indicates Charger ON/OFF status LED on hearing instrument indicates charging status	
Charging time of hearing instruments	Max 3 hours depending on initial state of the battery (Temperature: +10 °C to +35 °C (+50 °F to +95 °F)) Max 4 hours depending on initial state of the battery (Temperature: +5 °C to +10 °C (+41 °F to +50 °F) / +35 °C to +38 °C (+95 °F to +100 °F))	
Power source	Supplied power supply unit	
Input voltage	5V DC	
Input current	< 0.2 A (charging two hearing instruments) <10 mA stand-by (no hearing instruments inserted)	
Cable	Fixed mounted cable / 150 cm (approximately 5 feet)	
Connected to external equipment	When connected to external equipment plugged into a wall outlet, this equipment must comply with IEC-62368 (or IEC-60065, IEC-60950 until June 20, 2019) or equivalent safety standards.	
Conditions of use		
Operating conditions	Temperature: +5 °C to +38 °C (+41 °F to +100 °F) Relative humidity: 5 % to 93 %, non-condensing	
Storage and transportation conditions	Temperature: -25 °C to +70 °C (-13 °F to +158 °F) Relative humidity: 5 % to 93 %, non-condensing	
Atmospheric pressure	700 hPa to 1060 hPa	
Technical data: Power supply unit		
Power supply unit	AN05x - 050A	
Input voltage	100 - 240 V AC	
Input current	0.2 A	
Input frequency	50 – 60 Hz	
Output voltage	5 V DC	
Output current	1A	



