

## Product Information

# Alpha XT 9|7|5 miniBTE T R

**Bernafon Alpha XT takes Hybrid Technology™ to new levels.** The miniBTE T R 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 behind-the-ear hearing instrument designed for users with slight to severe hearing losses.

It includes 2.4 GHz Bluetooth® Low Energy and NFMI technology, a telecoil, and single push button for volume and program changes. The miniBTE T R is available with the miniFit thin tube system, which includes a variety of domes and custom molds.

Earhook



AHXT 9|7|5 MNB T R

miniFit 1.3 mm



AHXT 9|7|5 MNB T R

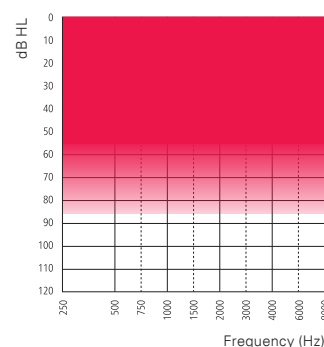
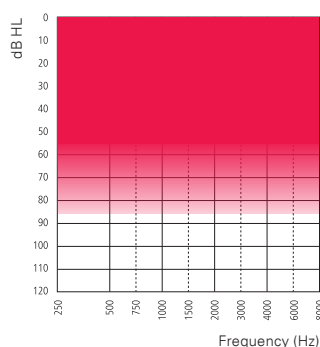
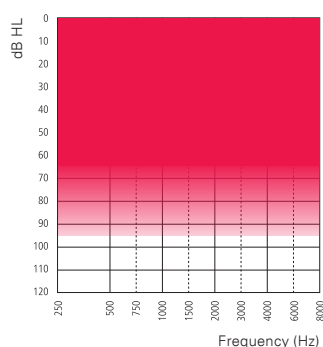
miniFit 0.9 mm



AHXT 9|7|5 MNB T R

Made for  
 iPhone | iPad | iPod

Works with  
 android



## Technical features

- Direct audio streaming (compatible with iOS and Android™ devices)
- Hands-free communication\*\*
- 2.4 GHz Bluetooth® Low Energy
- NFMI (near-field magnetic induction)
- Single push button
- Telecoil
- miniFit thin tube
- Hydrophobic coating
- IP68 rated
- LED visual indicator

## Accessories\*

- Bernafon App (compatible with iOS and Android devices)
- RC-A (remote control)
- TV-A (TV adapter)
- SoundClip-A
- Noahlink Wireless (wireless programming interface)

\* Please refer to [www.bernafon.com/hearing-aid-users/hearing-aids/connectivity](http://www.bernafon.com/hearing-aid-users/hearing-aids/connectivity) for additional information and support.

\*\* Available from FW 1.0 with select iPhone and iPad models.

Bernafon Alpha XT is a Made for iPhone, iPad, iPod hearing aid. Direct audio streaming for Android devices requires Android 10 or later, Bluetooth® 5.0 and an implementation of Audio Streaming for Hearing Aids (ASHA) on the Android device. For information on compatibility, please visit [www.bernafon.com/hearing-aid-users/hearing-aids/connectivity](http://www.bernafon.com/hearing-aid-users/hearing-aids/connectivity).

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The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Demant A/S is under license. Other trademarks and trade names are those of their respective owners.

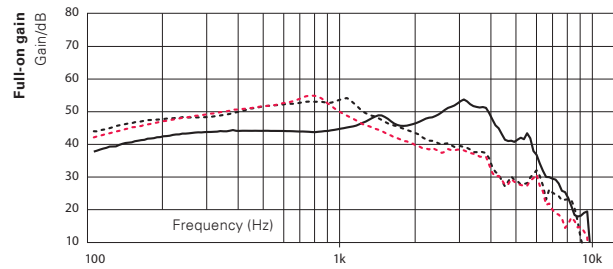
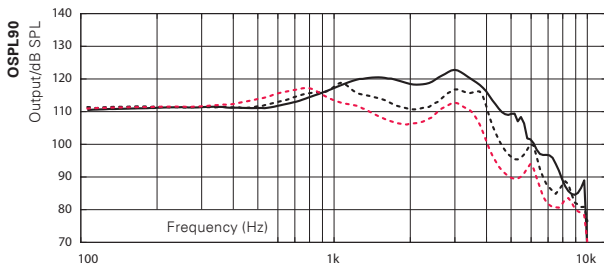
**WARNING:** No modification of this equipment is allowed.

**bernafon**<sup>®</sup>  
Your hearing • Our passion

# Alpha XT 9 miniBTE T R

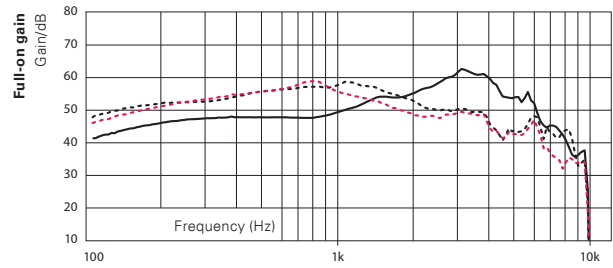
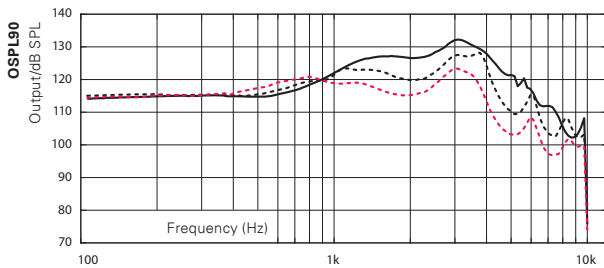
— Earhook  
 - - - miniFit 1.3 mm  
 - · - miniFit 0.9 mm

## 2CC COUPLER



	Earhook	miniFit 1.3 mm	miniFit 0.9 mm
OSPL90, Peak (dB SPL)	123	119	117
OSPL90, 1600 Hz (dB SPL)	120	114	108
OSPL90, HFA (dB SPL)	119	115	110
Full-on gain, Peak (dB)	54	54	55
Full-on gain, 1600 Hz (dB)	47	46	43
Full-on gain, HFA (dB)	47	47	43
Reference test gain (dB)	41	36	33
Battery	Li-ion	Li-ion	Li-ion
Expected operating time, hours <sup>1</sup>	24	24	24
Distortion 500/800/1600 Hz (%)	<4/<3/<2	<4/<2/<2	<2/<2/<2
Frequency Range	100-7300	100-6300	100-6800
Equivalent Input Noise (dB SPL) <sup>2</sup>	17	19	21
Telecoil 1 mA/m 1000 Hz, ANSI (dB SPL)	78	84	84
Telecoil HFA SPLITS (dB SPL)	99	97	91

## EAR SIMULATOR



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OSPL90, Peak (dB SPL)	132	128	123
OSPL90, 1600 Hz (dB SPL)	127	122	116
OSPL90, HFA (dB SPL)	126	122	118
Full-on gain, Peak (dB)	63	59	59
Full-on gain, 1600 Hz (dB)	54	55	51
Full-on gain, HFA (dB)	54	54	51
Reference test gain (dB)	47	46	40
Battery	Li-ion	Li-ion	Li-ion
Expected operating time, hours <sup>1</sup>	24	24	24
Distortion 500/800/1600 Hz (%)	<4/<4/<2	<5/<2/<2	<3/<2/<3
Frequency Range	100-9500	100-8800	100-9500
Equivalent Input Noise (dB SPL) <sup>2</sup>	19	16	19
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	85	87	87

<sup>1</sup> Expected operating time for rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

<sup>2</sup> 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.

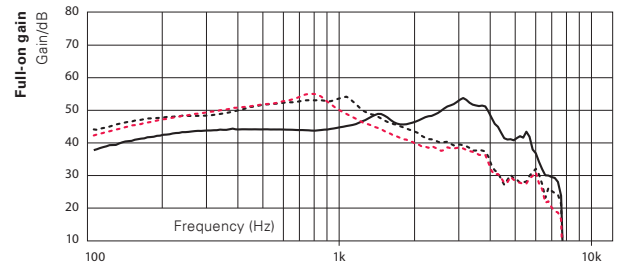
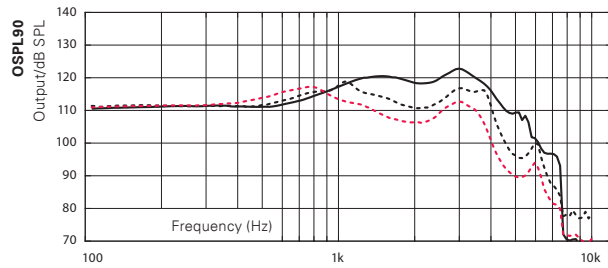
Applied versions: IEC 60118-0 /A1:1994, IEC 60118-1 /A1:1998, IEC 60118-7: 2005, ANSI S3.22: 2014, IEC 60118-0:2015.

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.

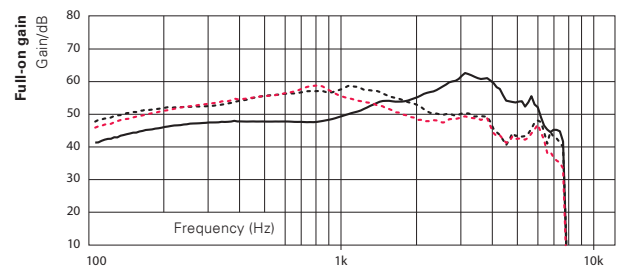
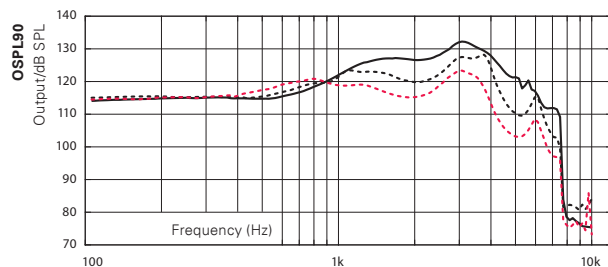
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Reference test gain (dB)	47	46	40
Battery	Li-ion	Li-ion	Li-ion
Expected operating time, hours <sup>1</sup>	24	24	24
Distortion 500/800/1600 Hz (%)	<4/<4/<2	<5/<2/<2	<3/<2/<3
Frequency Range	100-7500	100-7500	100-7500
Equivalent Input Noise (dB SPL) <sup>2</sup>	19	16	19
Telecoil 1 mA/m 1600 Hz, IEC (dB SPL)	85	87	87

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## Feature overview

	Alpha XT 9	Alpha XT 7	Alpha XT 5
<b>Hybrid Technology™</b>			
<b>Hybrid Sound Processing™</b>	•	•	•
Frequency bandwidth	10 kHz	8 kHz	8 kHz
<b>Hybrid Balancing™</b>	•	•	-
Speech Balancer	3 options	2 options	•
Noise Balancer	4 options	2 options	-
<b>Hybrid Noise Management™</b>	•	•	•
Smart Noise Reduction	4 options	4 options	3 options
Smart Directionality	4 options	4 options	4 options
Dynamic States	3 options	2 options	-
Omni States	2 options	2 options	-
<b>Hybrid Feedback Canceller™</b>	•	•	•
<b>Hybrid Sound Care™</b>	•	•	•
Wind Contact Noise Protector	•	•	•
<b>Speech</b>			
Low Frequency Enhancer	•	•	•
Frequency Composition <sup>next</sup>	•	•	•
<b>Comfort</b>			
Binaural Noise Manager	•	•	-
Transient Noise Reduction	6 options	5 options	4 options
Dynamic Range Extender	•	•	-
Soft Noise Manager	•	•	•
<b>Directionality controls</b>			
Dynamic	•	•	•
Adaptive Full Directionality	•	•	•
Fixed Directionality	•	•	•
Fixed Omni	•	•	•
Omni Directional	•	•	-
True Directionality Plus	•	•	-
<b>Individualization</b>			
Personalization	•	•	•
Fitting bands	24	20	18
Program options/memories	13/4	12/4	12/4
Music Experience	•	•	•
Binaural coordination: VC, program changes	•	•	•
Automatic Adaptation Manager	•	•	•
Transition	4 options	3 options	2 options
Data Logging	•	•	•
Conversation Data	•	•	•
Spoken indicators	•	•	•
Tinnitus SoundSupport	•	•	•
CROS compatibility	•	•	•

Alpha XT MNB T R can be programmed with Oasis<sup>next</sup> 2023.1 or higher

### 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

# Charger, miniBTE T R

The charger for Alpha XT miniBTE 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

- 3.5 h = Fully charged
- 1 h = 40 % charged
- 30 min = 20 % charged

<sup>1</sup> Power plug will vary from country to country

\* USB 2.0 high power (500 mA output) required

## Charger, miniBTE T R – Technical data

### Charger, miniBTE T R

Designed for/compatibility	Alpha, Alpha XT, miniBTE T R
Dimensions	Ø95 mm /total height of 39 mm
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 3.5 hours depending on initial state of the battery (Temperature: +10°C to +35°C (+50°F to +95°F)) Max 5 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	5 V DC
Input current	< 0.2 A (charging two hearing instruments) <10 mA stand-by (no hearing instruments inserted)
Cable	Fixed mounted cable / 150 cm
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 VDC
Output current	1 A



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Bernafon is part of the Demant Group.

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