

Technical data sheet

BTE

85



		Oticon Ruby 1	Oticon Ruby 2
Speech Understanding	Noise Reduction LX	•	•
	Multiband Adaptive Directionality LX	•	•
	Single Compression LX	•	•
	Speech Rescue™ LX	•	-
Sound Quality	Fitting Bandwidth*	8 kHz	8 kHz
	Processing Channels	48	48
	Bass Boost (streaming)	•	•
Listening Comfort	Transient Noise Management	On/Off	-
	SuperShield	•	-
	Feedback shield LX	•	•
	Wind Noise Management	•	•
Optimizing Fitting	Fitting Bands	10	8
	Adaptation Management	•	•
	Oticon Firmware Updater	•	•
	Multiple Directionality options	•	•
	Fitting Formulas	NAL-NL1+2, DSL v5.0	NAL-NL1+2, DSL v5.0
Connecting to the World	Stereo streaming (2.4 GHz)	•	•
	Oticon ON App	•	•
	ConnectClip	•	•
	Remote Control 3.0	•	•
	TV Adapter 3.0	•	•
	Phone Adapter 2.0	•	•
	EduMic	•	•
	DAI/FM	•	•
	Tinnitus SoundSupport™	•	•
	Oticon CROS compatible	•	•

* Bandwidth accessible for gain adjustments during fitting

Operating conditions

Temperature: +1°C to +40°C (34°F to 104°F)
Relative humidity: 5% to 93%, 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)
Relative humidity: 5% to 93%, non-condensing
Atmospheric pressure: 700 hPa to 1060 hPa

BTE offers a compact design with a double push button and an 85 receiver, using the 8 kHz bandwidth for excellent sound quality.

SuperShield rapidly and intelligently prevents feedback before it occurs.

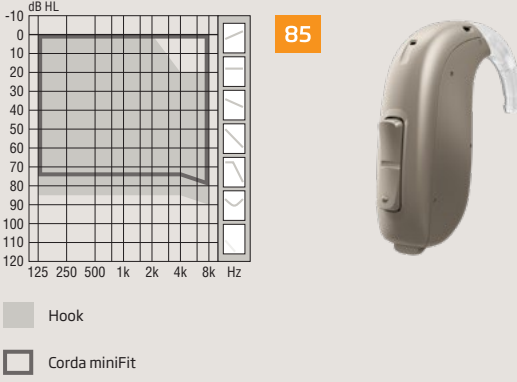
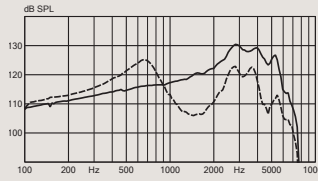
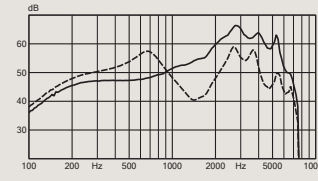
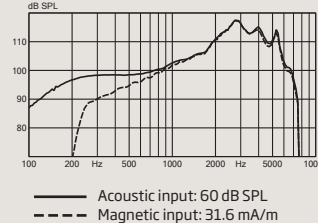
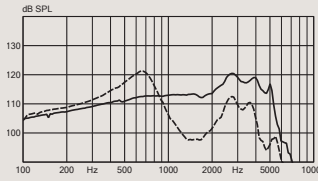
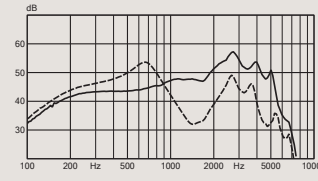
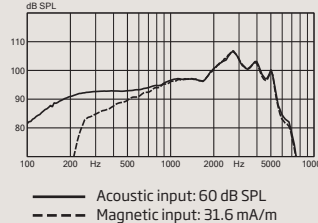
TwinLink™ wireless technology combines binaural communication and 2.4 GHz connectivity with stereo streaming directly from digital devices.

The powerful Velox S™ platform has programmable firmware architecture, supporting future performance updates.



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		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
 85 Hook Corda miniFit Technical information Omnidirectional mode is used unless otherwise stated.		OSPL90  Full-on Gain  Frequency Response 	OSPL90  Full-on Gain  Frequency Response 
OSPL90	Peak	130 (125 ¹) dB SPL	120 (121 ¹) dB SPL
	1600 Hz	121 (107 ¹) dB SPL	113 (98 ¹) dB SPL
	HFA-OSPL90	122 (113 ¹) dB SPL	115 (105 ¹) dB SPL
Full-on gain ²	Peak	66 (59 ¹) dB	57 (54 ¹) dB
	1600 Hz	55 (41 ¹) dB	47 (33 ¹) dB
	HFA-FOG	57 (49 ¹) dB	50 (41 ¹) dB
Reference test gain		46 dB	39 dB
Frequency range		105-7500	100-7000
Telecoil output (1600 Hz)	1 mA/m field	85 dB SPL	-
	10 mA/m field	105 dB SPL	-
	SPLITS L/R	-	97/97 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	< 2 %	< 2 %
	800 Hz	2 %	< 2 %
	1600 Hz	< 2 %	< 2 %
Equivalent input noise level	Omni	21 dB SPL	18 dB SPL
	Dir	31 dB SPL	28 dB SPL
Battery consumption ³	Typical	1.4 mA	1.7 mA
	Quiescent	1.3 mA	1.7 mA
Battery life, artificial measurement, hours ⁴		230	180
Expected battery life, hours (battery size 13 - IEC PR48) ⁵		105-115	

- For instruments fitted with Corda miniFit.
- 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.
- Battery current is measured according to IEC 60118-0:1983/AMD1:1994 §7.11, IEC 60118-0:2015 §7.7 and ANSI S3.22:2014 §6.13 after a settling time of a minimum of 3 minutes.
- Based on the standardized battery consumption measurement (IEC 60118-0:1983/AMD1:1994). The actual battery life depends on battery quality, use pattern, active feature set, hearing loss and sound environment.
- Real usage battery life is shown as an estimated interval based on mixed use cases with variable amplification settings and variable input levels, incl. direct stereo streaming from a TV (25% of the time) and streaming from a mobile phone (6% of the time).



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