

# Technical data sheet

## miniRITE R

60 85 100 105



		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	•	•
	Tinnitus SoundSupport™	•	•
	Oticon CROS compatible	•	•

\* Bandwidth accessible for gain adjustments during fitting

### Operating conditions

Temperature: +5°C to +40°C  
Relative humidity: 5% to 93%, non-condensing

### Charging conditions

Temperature: +5°C to +40°C  
Relative humidity: 5% to 93%, non-condensing

### Storage and transportation conditions

Temperature and humidity should not exceed the below limits for extended periods during transportation and storage.

### Transport

Temperature: -20°C to +60°C  
Relative humidity: 5% to 93%, non-condensing

### Storage

Temperature: -20°C to +30°C  
Relative humidity: 5% to 93%, non-condensing

miniRITE R offers a discreet design powered by a rechargeable lithium-ion battery. The inductive charger secures reliable and fast charging within 3 hours for a full charge.

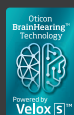
miniRITE R features telecoil and a convenient double push button.

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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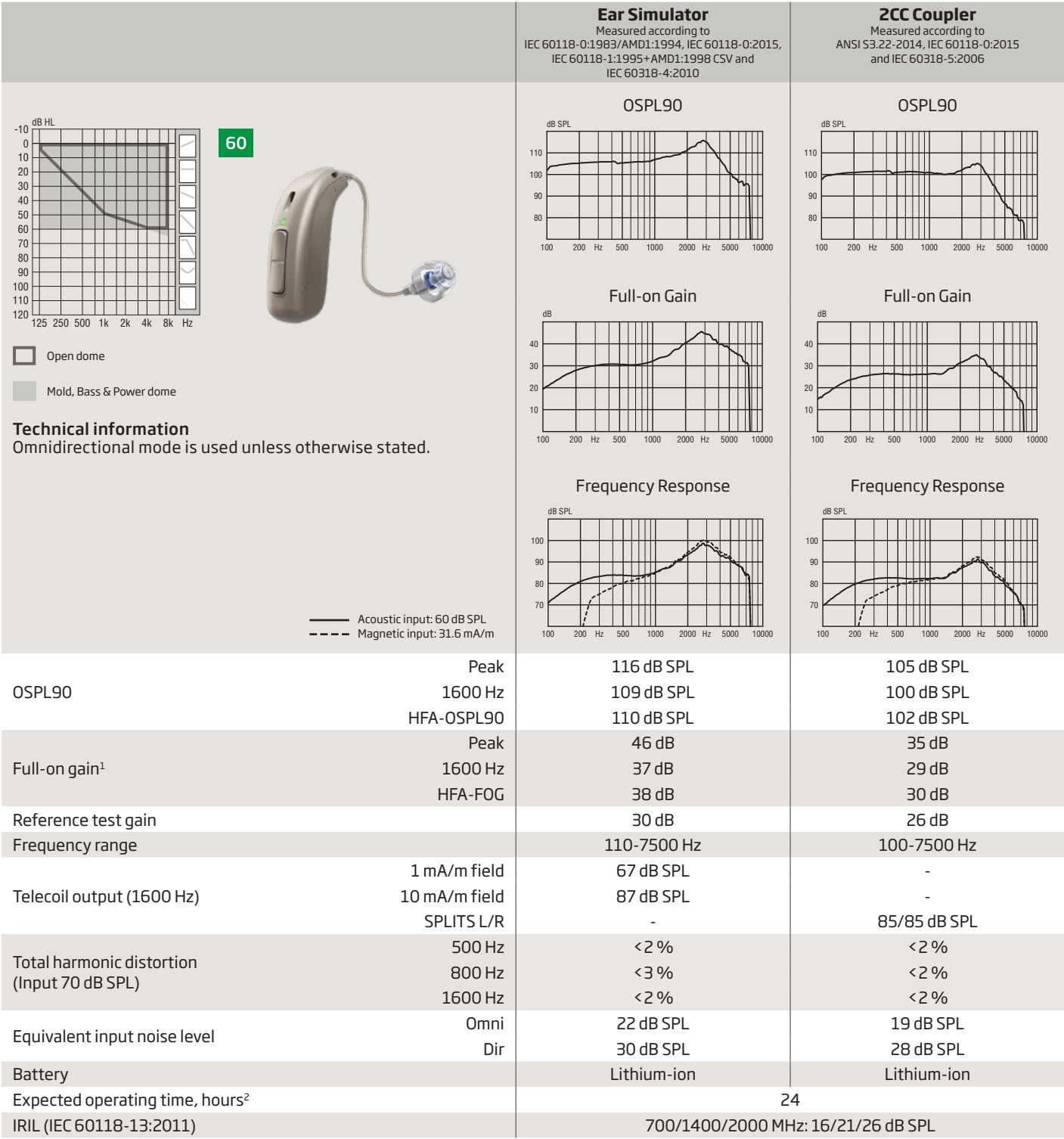


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For information on compatibility, please visit [www.oticon.com/solutions/accessories](http://www.oticon.com/solutions/accessories)


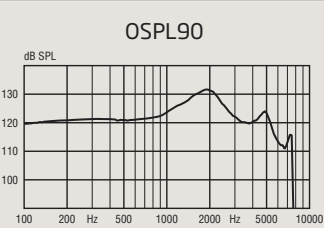
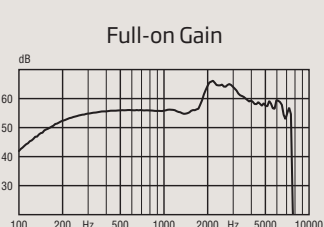
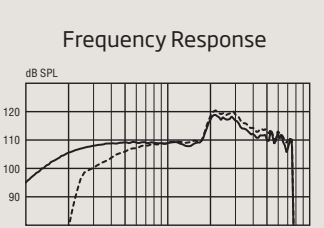
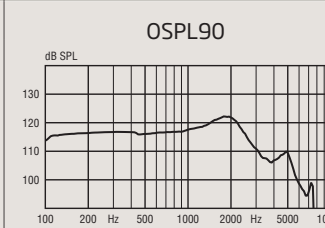
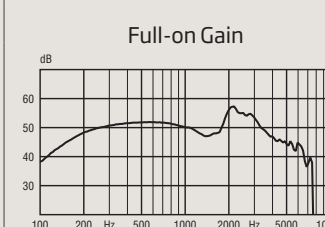
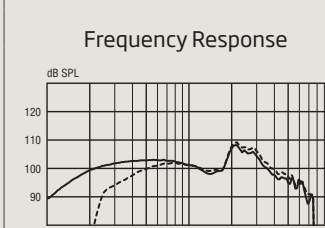
Oticon Ruby

miniRITE R 60



Oticon Ruby

miniRITE R 100

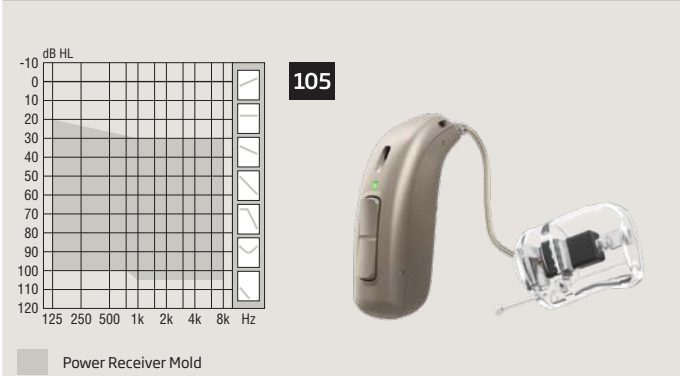
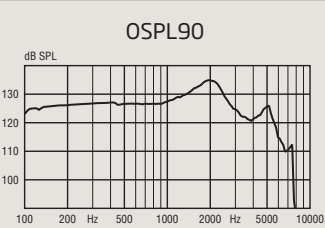
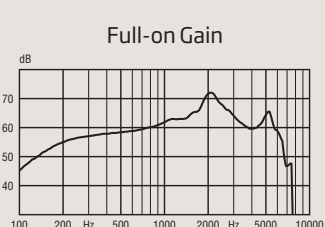
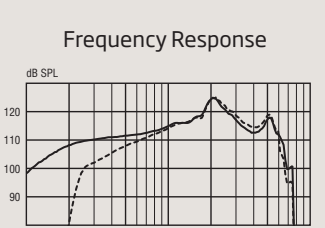
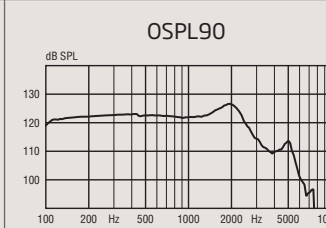
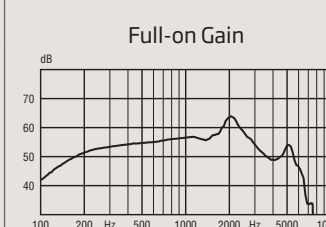
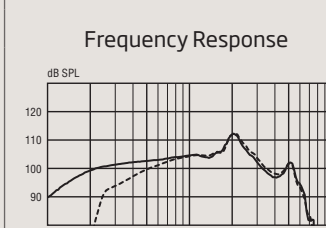
		Ear Simulator Measured according to IEC 60118-0:1983/AMD1:1994, IEC 60118-0:2015, IEC 60118-1:1995+AMD1:1998 CSV and IEC 60318-4:2010	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
 <div>Power Receiver Mold, Bass &amp; Power dome</div>		  	  
<b>Technical information</b> Omnidirectional mode is used unless otherwise stated.			
<b>Instrument warning</b> The maximum output capability of the hearing instrument may exceed 132 dB SPL (IEC 711). 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.			
<div>Acoustic input: 60 dB SPL Magnetic input: 31.6 mA/m</div>			
OSPL90		Peak 1600 Hz HFA-OSPL90	132 dB SPL 130 dB SPL 127 dB SPL
Full-on gain <sup>1</sup>		Peak 1600 Hz HFA-FOG	122 dB SPL 121 dB SPL 118 dB SPL
Reference test gain			66 dB 56 dB 59 dB
Frequency range			49 dB 42 dB
Telecoil output (1600 Hz)		1 mA/m field 10 mA/m field SPLITS L/R	100-7500 Hz 86 dB SPL 106 dB SPL - 103/103 dB SPL
Total harmonic distortion (Input 70 dB SPL)		500 Hz 800 Hz 1600 Hz	- - -
Equivalent input noise level		Omni Dir	< 2 % < 2 % < 2 %
Battery			23 dB SPL 32 dB SPL
Expected operating time, hours <sup>2</sup>			Lithium-ion Lithium-ion
IRIL (IEC 60118-13:2011)			24 700/1400/2000 MHz: 18/21/28 dB SPL

1) 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.

2) Expected operating time for a rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

Oticon Ruby

miniRITE R 105

		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	ZCC Coupler Measured according to ANSI S3.22-2014, IEC 60118-0:2015 and IEC 60318-5:2006
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<div>Acoustic input: 60 dB SPL Magnetic input: 31.6 mA/m</div>			
OSPL90		Peak 1600 Hz HFA-OSPL90	135 dB SPL 132 dB SPL 130 dB SPL
Full-on gain <sup>1</sup>		Peak 1600 Hz HFA-FOG	127 dB SPL 125 dB SPL 122 dB SPL
Reference test gain			72 dB 65 dB 65 dB
Frequency range			58 dB 46 dB
Telecoil output (1600 Hz)		1 mA/m field 10 mA/m field SPLITS L/R	100-7500 Hz 96 dB SPL 116 dB SPL - 105/105 dB SPL
Total harmonic distortion (Input 70 dB SPL)		500 Hz 800 Hz 1600 Hz	- -
Equivalent input noise level		Omni Dir	< 2 % < 2 % < 2 %
Battery			18 dB SPL 28 dB SPL
Expected operating time, hours <sup>2</sup>			Lithium-ion Lithium-ion
IRIL (IEC 60118-13:2011)			24 700/1400/2000 MHz: 38/18/39 dB SPL

1) 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.

2) Expected operating time for a rechargeable battery depends on use pattern, active feature set, hearing loss, sound environment, battery age and use of wireless accessories.

# Charger 1.0

# miniRITE R

The charger is designed for charging Oticon Ruby miniRITE R.  
The charger is based on inductive technology. It wirelessly charges the hearing aids within three hours.  
A magnetic connection secures the hearing aids in the charger.  
The charger is designed to simplify everyday charging activities with a few, easy actions.

## Charging

- Designed to make the most typical daily routine of charging smooth and simple.
- Take off the hearing aids and insert them in the charger - no lid to open.
- The hearing aids automatically start charging when placed in the charger and turn ON automatically when removed from the charger.
- Charge every night and the hearing aids will be fully charged when needed during day time.

## Intuitive to decode with few simple LED messages directly on the hearing aids:

- Orange = Charging
- Green = Fully charged

## Offering short charging times. If the hearing aids are completely drained, the normal charging times are:

- 3 h = Fully charged
- 1 h = 50% charged
- 0.5 h = 25% charged

## Product facts

- Inductive charging
- Power ON/OFF LED indicator on charger
- The charger comes with a fixed cable
- High stability due to rubber feet
- Soft, round shapes - easy to clean
- Soft pouch for traveling included



\* Power plug will vary from country to country

# Charger 1.0

# miniRITE R

Technical data: Charger	
Name	Charger 1.0, Oticon miniRITE R
Designed for/compatibility	Oticon Opn S, Oticon Opn Play, Oticon Ruby: miniRITE R
Dimensions	Ø95 mm /total height of 39 mm
Weight	140 grams
Color	Black
Power supply plug	USB A
Status indicator	LED on charger. Indicates Charger ON/OFF status LED on hearing aid. Indicates charging mode
Charging time of hearing aids	Max 3 hours depending on initial state of the battery (Temperature: +10 °C to +35 °C) Max 4 hours depending on initial state of the battery (Temperature: +5 °C to +10 °C and +35 °C to +40 °C)
Power source	Supplied power supply unit
Input voltage	5 V DC
Input current	< 0.2 A (charging two hearing aids) <10mA stand-by (no hearing aids 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 equivalent safety standards.
Conditions of use	
Operating conditions	Temperature: +5 °C to +40 °C Relative humidity: 5 % to 93 %, non-condensing
Storage and transportation conditions	Temperature: -25 °C to +70 °C 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	1 A



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