Beltone **Serene**™

CROS Transmitter



Model	CSE162S-DRWC
Device Configurations	
Battery size	Rechargeable Lithium-Ion
Receiver Options	LP, MP, HP
Control Options	Push button
IP Classification	IP68
Battery Lifetime (CROS/BiCROS fitting)	16 (typ) hours
Audiological Features	
Speech Spotter Basic	●
Smart Beam	●
Fixed Directionality	●
Omni	●
Noise Reduction	Paired hearing aid options
CROS balance control	●
Connectivity Features	
Wireless accessory and direct streaming	Paired hearing aid options
Wireless fitting with NoahLink Wireless	●



Standard charger



Premium charger



Desktop charger

Technical data	Premium charger	Standard charger	Desktop charger
Dimensions	99.4 x 35 x 67.5 mm / 3.9 x 1.4 x 2.7”	100.2 x 42 x 54.8 mm / 3.9 x 1.7 x 2.2”	82 x 36 x 46 mm / 3.2 x 1.4 x 1.8”
Weight	145 grams / 5.1 oz	95 grams / 3.3 oz	82 grams / 2.9 oz
Power supply	USB power supply, 5 V	USB power supply, 5 V	USB power supply, 5 V
Charging form factor (CFF)	8	8	8
Internal power source	Rechargeable Lithium Ion battery	N/A	N/A
Charging time for internal lithium ion battery in charger	Max 3,5 hours, depending on initial state of the battery	N/A	N/A
Battery life (fully charged, not connected to mains power)	Min. 3 full charges of 2 hearing instruments, without hearing instruments: 12 months	N/A	N/A
Charging time for hearing instrument	< 35 °C (95F): 3 hours, depending on initial state of the battery	< 35 °C (95F): 3 hours, depending on initial state of the battery	< 35 °C (95F): 3 hours, depending on initial state of the battery
Wireless communication and charging frequencies	2.4 GHz and 135 kHz	2.4 GHz and 135 kHz	2.4 GHz and 135 kHz
ESD tolerance	According to IEC 61000-4-2 Electrostatic discharge immunity test standard	According to IEC 61000-4-2 Electrostatic discharge immunity test standard	According to IEC 61000-4-2 Electrostatic discharge immunity test standard
Operating temperature	+ 5 °C (41F) to + 35 °C (95F) at a relative humidity range of 15% to 90%, non-condensing	+ 5 °C (41F) to + 35 °C (95F) at a relative humidity range of 15% to 90%, non-condensing	+ 5 °C (41F) to + 35 °C (95F) at a relative humidity range of 15% to 90%, non-condensing
Storage temperature for charger	– 25 °C (-13F) to + 5 °C (41F), + 5 °C (41F) to + 35 °C (95F) at a relative humidity up to 90%, non-condensing, > 35 °C (95F) to 60 °C (140F) at a water vapour pressure up to 50 hPa	– 25 °C (-13F) to + 5 °C (41F), + 5 °C (41F) to + 35 °C (95F) at a relative humidity up to 90%, non-condensing, > 35 °C (95F) to 70 °C (158F) at a water vapour pressure up to 50 hPa	– 25 °C (-13F) to + 5 °C (41F), + 5 °C (41F) to + 35 °C (95F) at a relative humidity up to 90%, non-condensing, > 35 °C (95F) to 70 °C (158F) at a water vapour pressure up to 50 hPa

Made for iPhone | iPad | iPod

Works with Android

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Technical Specifications

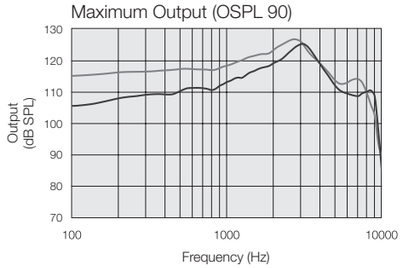
		LP		MP		
		IEC 60118-0: 1983_AMD1:1994 IEC 60118-0:2015 IEC 711 Ear simulator	ANSI S3.22-2014 IEC 60118-0:2015 JIS C 5512: 2015 2cc coupler	IEC 60118-0: 1983_AMD1:1994 IEC 60118-0:2015 IEC 711 Ear simulator	ANSI S3.22-2014 IEC 60118-0:2015 JIS C 5512: 2015 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	41	32	45	37	dB
Full-on gain (50 dB SPL input)	Max. 1600 Hz/HFA	65 57	54 48	70 61	59 53	dB
Maximum output (90 dB SPL input)	Max. 1600 Hz/HFA	125 117	114 109	127 122	116 113	dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.8 1.5 1.1	0.6 0.8 0.8	1.1 1.6 1.0	0.9 1.0 0.8	%
Equivalent input noise, w/o Noise reduction		24	22	23	21	dB SPL
1/3 Octave Equivalent input noise, w/o Noise reduction	1600 Hz	9	9	10	10	dB SPL
Frequency range		<200 - >8000	<200 - >8000	<200 - >8000	<200 - >8000	Hz
Battery Lifetime (Battery type Rechargeable)*		30 (max) 24 (typ)	30 (max) 24 (typ)	30 (max) 24 (typ)	30 (max) 24 (typ)	Hours

* Expected operating time of the rechargeable battery depends on active features,
the use of wireless accessories, hearing loss, battery age and sound environment.
Maximum number includes no streaming; typical number includes several hours of streaming.
** Performance specs related to fittings of the CROS Transmitter as a standard hearing instrument.

Patents pending.

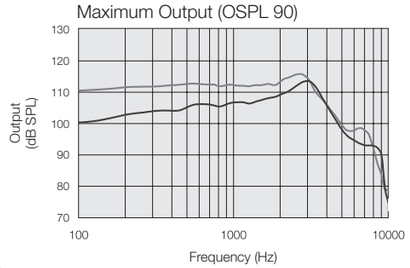
IEC 60118-0: 1983_AMD1:1994
IEC 711 Ear Simulator

Maximum Output (OSPL 90)



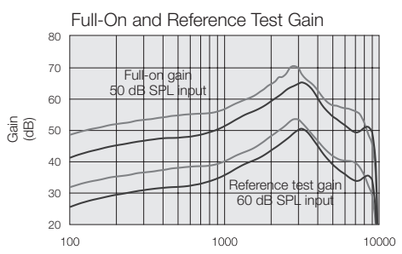
ANSI S3.22-2014
IEC 60118-0:2015
JIS C 5512: 2015
2cc coupler

Maximum Output (OSPL 90)

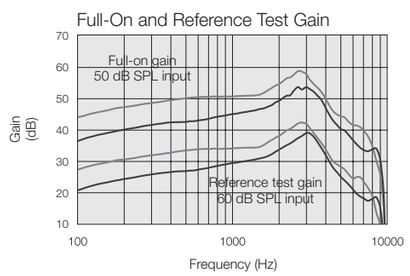




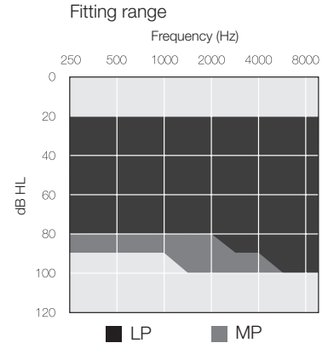
Full-On and Reference Test Gain



Full-On and Reference Test Gain



Fitting range



All specifications are subject to change without notice.

Technical Specifications

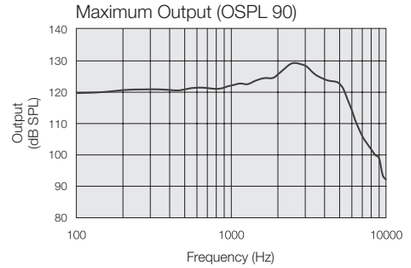
		HP	
		IEC 60118-0: 1983_AMD1:1994 IEC 60118-0:2015 IEC 711 Ear simulator	ANSI S3.22-2014 IEC 60118-0:2015 JIS C 5512: 2015 2cc coupler	
Reference test gain (60 dB SPL input)	1600 Hz/HFA	48	40	dB
Full-on gain (50 dB SPL input)	Max. 1600 Hz/HFA	73 67	63 59	dB
Maximum output (90 dB SPL input)	Max. 1600 Hz/HFA	129 124	120 117	dB SPL
Total harmonic distortion	500 Hz 800 Hz 1600 Hz	0.7 1.2 0.8	0.4 0.5 0.5	%
Equivalent input noise, w/o Noise reduction		20	19	dB SPL
1/3 Octave Equivalent input noise, w/o Noise reduction	1600 Hz	10	10	dB SPL
Frequency range		<200-7390	<200-6090	Hz
Battery Lifetime (Battery type Rechargeable)*		30 (max) 24 (typ)	30 (max) 24 (typ)	Hours

* Expected operating time of the rechargeable battery depends on active features,
the use of wireless accessories, hearing loss, battery age and sound environment.
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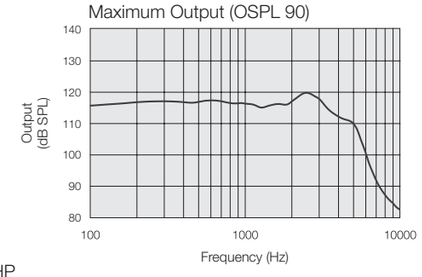
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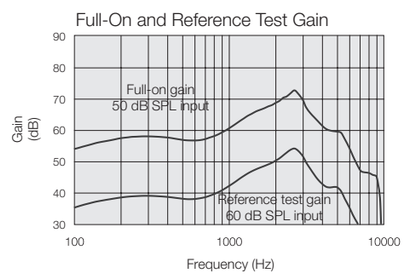
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2cc coupler

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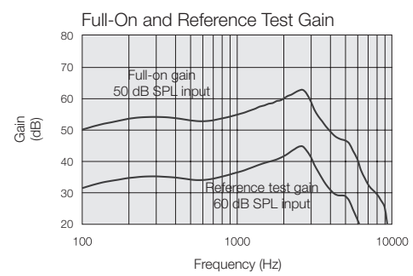




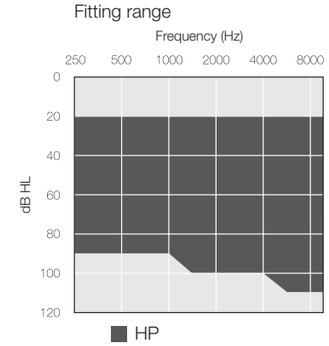
Full-On and Reference Test Gain



Full-On and Reference Test Gain



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