



Oticon Epoq is a new generation of wireless hearing instruments that offer a range of unique features within two key areas. Epoq utilizes high-speed wireless technology to connect two instruments enabling true binaural processing allowing for fast correlation of parameters essential for a proper stereophonic sound experience, e.g. the compression characteristics. Secondly, the companion device, Streamer, allows signals from modern communication devices such as mobile phones to be directly streamed into the instruments.

*Epoq comes in two versions; the **XW** and **W**, both available in all styles from CIC over RITE to BTE in a full range of colour combinations.*

EPOQ KEY FEATURES

Contemporary Design

BTE and RITE designs are very small and discreet in size, combining strong robustness, beautiful cosmetics and remarkable user-friendliness.

All 'behind-the-ear' styles are offered in a broad and contemporary colour palette building on a 2 colour lay-out and a titanium look push button.

Spatial Sound

Two binaurally fitted Epoqs work as one central processing unit, helping to maintain a proper interpretation of the location of the various sounds in the environment.

True Dynamics

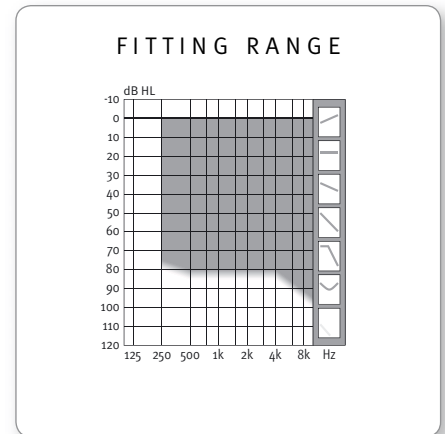
Uniquely, Epoq is capable of providing a mixture of two separate and parallel compression system - a slow 15 channel and a fast 4 channel system – to protect listening quality at all sound levels, thereby minimising fatigue and maximising audibility and speech understanding.

My Voice

Epoq can tell when the client is talking and listening, allowing for sound stability to be maintained throughout conversations in challenging environments that often cause disruptive instrument artefacts due to the fast-changing SNR between listening and talking.

Binaural DFC

Combining input from the feedback detectors in both ears, the new DFC system is able to detect and eliminate true feedback and allows the client to enjoy music without the instruments trying to cancel out identical pure musical tones appearing at both ears.



Standard Features

- True Dynamics
- Extreme Bandwidth 10 kHz
- Front Focus
- Life Learning
- Spatial Sound
- Binaural Dynamic Feedback Cancellation
- My Voice
- Binaural Broadband (principle)
- Four Customisable Programs
- AutoPhone Program
- Epoq Memory
- Sound indicators for phone call, program shifts
- Low battery warning
- On-set delay and jingle
- Wind noise protection
- 15 channel TriState Noise Reduction
- Multiband Adaptive Directionality
- Voice Aligned Compression
- DAI input
- T-coil

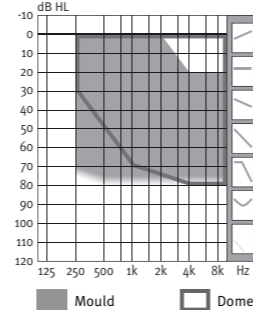


WIRELESS CONNECTIVITY

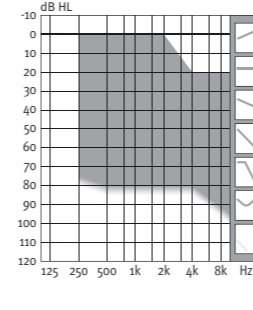


The Streamer connects the hearing instruments to different audio sources for communication, entertainment or information purposes such as mobile phones, MP3 players, PC's etc. The Epoq Streamer gives the client the equivalent of a hands-free Bluetooth head-set to both ears without having to attach any devices to the hearing aids. The client controls all the streaming scenarios directly from the Streamer itself since the Streamer works fully automatic and integrated with the dedicated wireless programs embedded in all styles of Epoq instruments*.

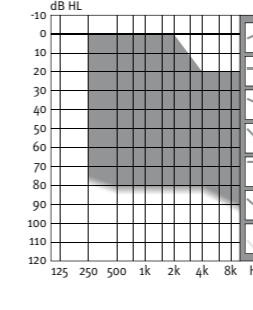
RITE



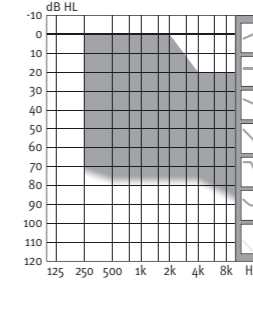
BTE



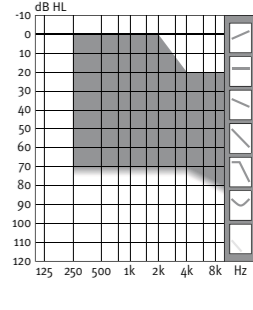
ITE



ITC



CIC / MIC



FEATURES	Epoq W	Epoq XW
Styles available	All	All
Colour palette	Full	Full
Streamer	Optional*	Optional*
Binaural Broadband (Principle)	Yes	Yes
True Dynamics	Yes	Yes
Extreme Bandwidth (10 kHz)	Yes	Yes
Front Focus	Yes	Yes
Life Learning	Yes	Yes
Spatial Sound	-	Yes
Binaural DFC	-	Yes
My Voice	-	Yes

*) Except CIC's

OSPL90	Ear simulator	119 dB SPL	125 dB SPL	123 dB SPL	123 dB SPL	119 dB SPL
(peak)	2cc coupler	109 dB SPL	115 dB SPL	113 dB SPL	113 dB SPL	109 dB SPL
Full-on gain	Ear simulator	58 dB	60 dB	56 dB	51 dB	47 dB
(peak)	2cc coupler	47 dB	50 dB	46 dB	41 dB	37 dB
Programs		1-4	1-4	1-4	1-4	1
Ear Stream enabled		Yes	Yes	Yes	Yes	-
Multiband Adaptive Directionality		Yes	Yes	Yes	Yes	-
Telecoil		Yes	Yes	Optional	Optional	-
AutoPhone		Yes	Yes	Optional	Optional	-
Volume control		Configurable	Configurable	Optional	-	-
Binaural controls		Yes	Yes	Yes	Yes	-
Battery size		312	312	312	312	10
Battery life, typical		100 hrs	110 hrs	110 hrs	110 hrs	80 hrs

FITTING

Epoq instruments are programmed using the Genie 2007.1 Fitting Software or higher compatible with NOAH 3 or higher. Uses programming cables #3.

Custom instruments

CIC/MIC FlexConnect
ITC/ITE Programming Adaptor

BTE/RITE instruments

Programming Shoe



RITE STYLE

Speaker Unit	Available in four lengths: Short, Medium, Long and Extra Long
Ear Piece	Open Dome: Available in three sizes - 6 mm, 8 mm, 10 mm Plus Dome: One size Micro Mould: Requires taking an impression
Ear Grip	Ensures a secure and comfortable grip. One version fits left and right ear.
Wax Protection	NoWax/WaxStop

BTE and RITE STYLES

Black Line colours	Chroma Beige Espresso Steel Grey White Silver
White Line colours	Ice Blue Orchid Silver Grey Gold Dust
Regular Line colours	Beige Silver Silver Beige Steel Silver
Tamper resistant battery drawer	Available in Black, White, Silver Grey and Golden Beige
DAI shoe	AP 900
Damping Element (BTE only)	Damper for replacement

CUSTOM STYLES

Skin colours	Beige Light Brown Medium Brown Dark Brown
Wax protection	NoWax, Micro WaxBuster and WaxBuster
Note	CIC's / MIC's do not include the following standard features: My Voice, Binaural DFC, Spatial Sound and AutoPhone



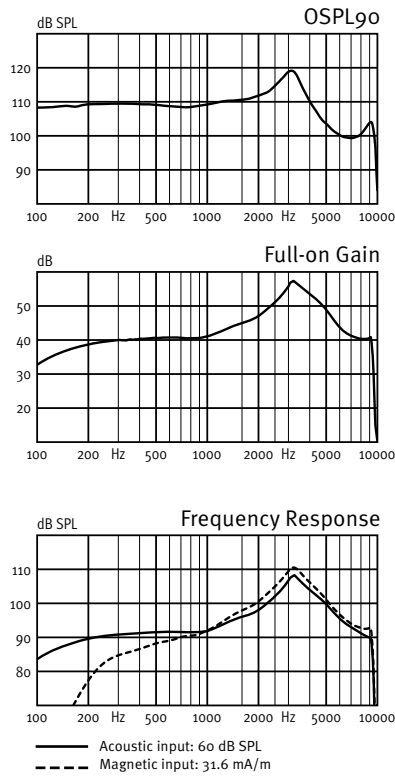
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Technical Information

Omnidirectional mode is used unless otherwise stated.

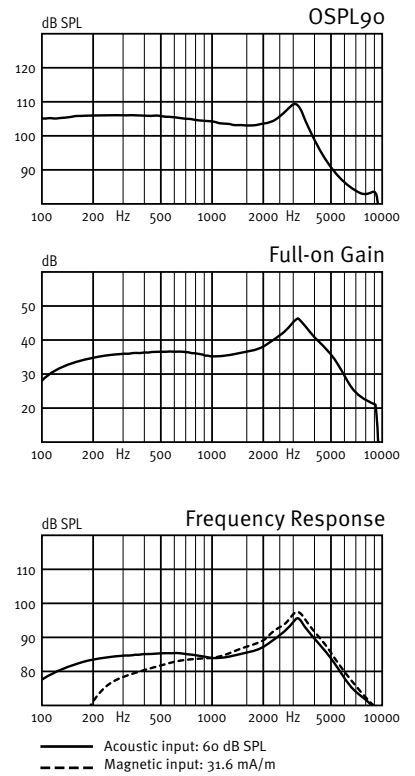
EAR SIMULATOR

Measured according to IEC 60118-0 (1983) and 60711 (1981).



2 CC COUPLER

Measured according to ANSI S3.22 (2003) and S3.7 (1995), IEC 60118-7 (2005) and IEC 60318-5 (2006).



OSPL90	Peak	119 dB SPL	109 dB SPL
	1600 Hz	111 dB SPL	103 dB SPL
	Average	110 dB SPL	104 dB SPL
Full-on gain	Peak	58 dB	47 dB
	1600 Hz	45 dB	37 dB
	Average	43 dB	38 dB
Frequency range		100-9500 Hz	100-9000 Hz
Telecoil output (1600 Hz)	1 mA/m field	77 dB SPL	-
	10 mA/m field	97 dB SPL	-
	SPLITS L / R	-	87 / 89 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	0.4 %	0.2 %
	800 Hz	0.6 %	0.4 %
	1600 Hz	0.4 %	0.4 %
Equivalent input noise level (A)	Omni	22 dB SPL	19 dB SPL
	Dir	29 dB SPL	25 dB SPL
Battery consumption	Quiescent	1.3 mA	1.3 mA
	Typical	1.3 mA	1.3 mA

Estimated battery life (Size 312, IEC PR41)	Typical	100 hours
	Minimum	80 hours
IRIL (IEC 60118-13)	GSM / DECT	-23 / -12 dB SPL



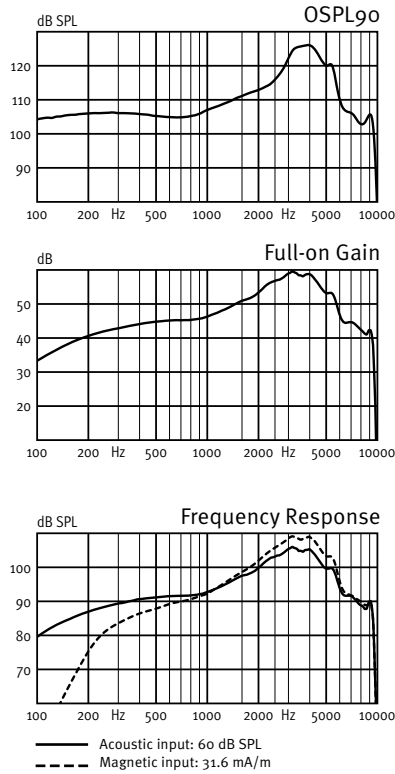
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Technical Information

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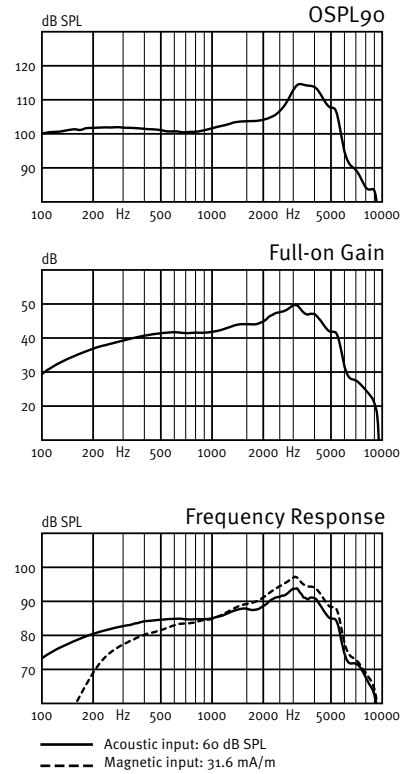
EAR SIMULATOR

Measured according to IEC 60118-0 (1983) and 60711 (1981).



2 CC COUPLER

Measured according to ANSI S3.22 (2003) and S3.7 (1995), IEC 60118-7 (2005) and IEC 60318-5 (2006).



OSPL90	Peak	125 dB SPL	115 dB SPL
	1600 Hz	111 dB SPL	104 dB SPL
	Average	108 dB SPL	105 dB SPL
Full-on gain	Peak	60 dB	50 dB
	1600 Hz	51 dB	44 dB
	Average	47 dB	44 dB
Frequency range		100-9500 Hz	100-8000 Hz
Telecoil output (1600 Hz)	1 mA/m field	82 dB SPL	-
	10 mA/m field	102 dB SPL	-
	SPLITS L / R	-	88 / 90 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	0.8 %	0.6 %
	800 Hz	0.5 %	0.2 %
	1600 Hz	0.2 %	0.1 %
Equivalent input noise level (A)	Omni	22 dB SPL	19 dB SPL
	Dir	29 dB SPL	25 dB SPL
Battery consumption	Quiescent	1.1 mA	1.1 mA
	Typical	1.2 mA	1.2 mA

Estimated battery life (Size 312, IEC PR41)	Typical	110 hours
	Minimum	90 hours
IRIL (IEC 60118-13)	GSM / DECT	-18 / -14 dB SPL



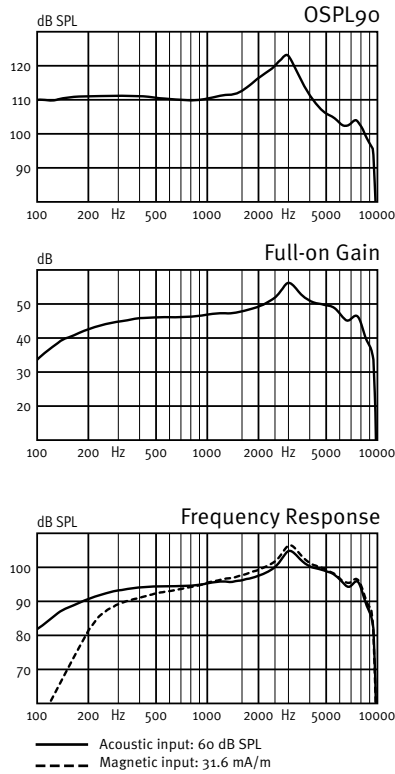
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Technical Information

All measurements are made on instruments with NoWax protection. Omnidirectional mode is used unless otherwise stated.

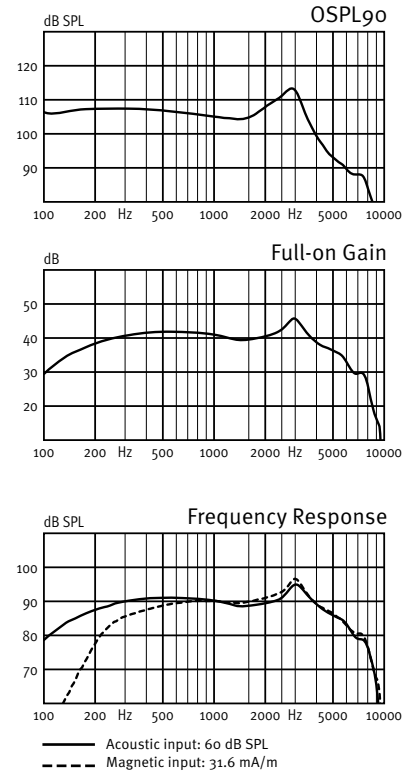
EAR SIMULATOR

Measured according to IEC 60118-0 (1983) and 60711 (1981).



2 CC COUPLER

Measured according to ANSI S3.22 (2003) and S3.7 (1995), IEC 60118-7 (2005) and IEC 60318-5 (2006).



OSPL90	Peak	123 dB SPL	113 dB SPL
	1600 Hz	112 dB SPL	105 dB SPL
	Average	112 dB SPL	107 dB SPL
Full-on gain	Peak	56 dB	46 dB
	1600 Hz	48 dB	40 dB
	Average	47 dB	41 dB
Frequency range		100-9500 Hz	100-8500 Hz
Telecoil output (1600 Hz)	1 mA/m field	79 dB SPL	-
	10 mA/m field	99 dB SPL	-
Total harmonic distortion (Input 70 dB SPL)	SPLITS	-	87 dB SPL
	500 Hz	0.7 %	0.5 %
	800 Hz	0.8 %	0.4 %
Equivalent input noise level (A)	1600 Hz	0.7 %	0.4 %
	Omni	20 dB SPL	17 dB SPL
Battery consumption	Dir	27 dB SPL	25 dB SPL
	Quiescent	1.1 mA	1.2 mA
	Typical	1.2 mA	1.3 mA

Estimated battery life (Size 312, IEC PR41)	Typical	110 hours
	Minimum	90 hours
IRIL (IEC 60118-13)	GSM / DECT	-43 / -21 dB SPL



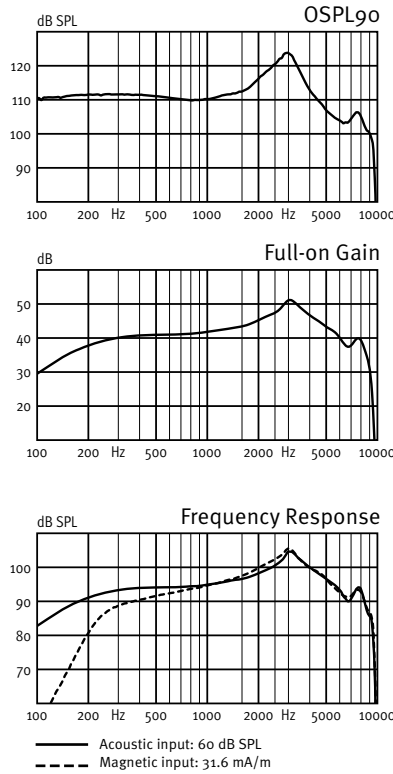
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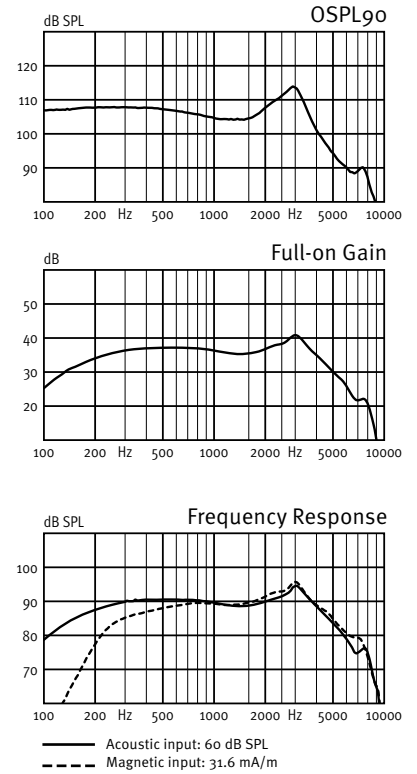
EAR SIMULATOR

Measured according to IEC 60118-0 (1983) and 60711 (1981).



2 CC COUPLER

Measured according to ANSI S3.22 (2003) and S3.7 (1995), IEC 60118-7 (2005) and IEC 60318-5 (2006).



OSPL90	Peak	123 dB SPL	113 dB SPL
	1600 Hz	112 dB SPL	105 dB SPL
	Average	112 dB SPL	107 dB SPL
Full-on gain	Peak	51 dB	41 dB
	1600 Hz	43 dB	35 dB
	Average	43 dB	37 dB
Frequency range		100-9200 Hz	100-8500 Hz
Telecoil output (1600 Hz)	1 mA/m field	74 dB SPL	-
	10 mA/m field	94 dB SPL	-
	SPLITS	-	87 dB SPL
Total harmonic distortion (Input 70 dB SPL)	500 Hz	0.8 %	0.6 %
	800 Hz	1.0 %	0.6 %
	1600 Hz	1.0 %	0.6 %
Equivalent input noise level (A)	Omni	19 dB SPL	17 dB SPL
	Dir	28 dB SPL	26 dB SPL
Battery consumption	Quiescent	1.1 mA	1.1 mA
	Typical	1.2 mA	1.2 mA

Estimated battery life (Size 312, IEC PR41)	Typical	110 hours
	Minimum	90 hours
IRIL (IEC 60118-13)	GSM / DECT	-38 / -17



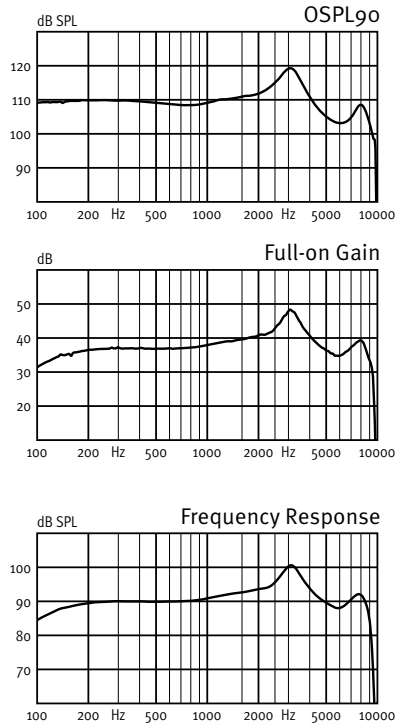
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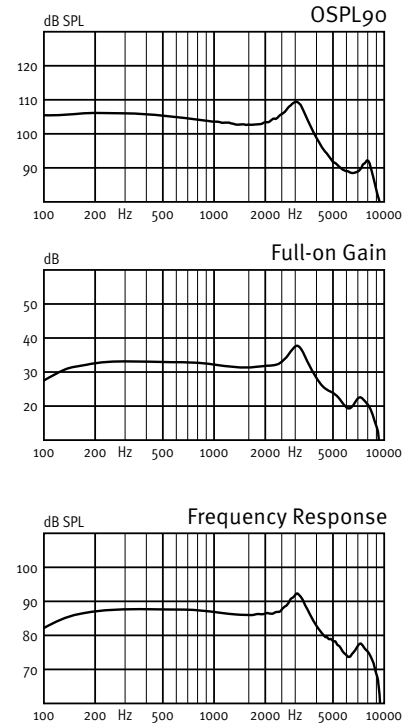
EAR SIMULATOR

Measured according to IEC 60118-0 (1983) and 60711 (1981).



2 CC COUPLER

Measured according to ANSI S3.22 (2003) and S3.7 (1995), IEC 60118-7 (2005) and IEC 60318-5 (2006).



OSPL90	Peak	119 dB SPL	109 dB SPL
	1600 Hz	111 dB SPL	103 dB SPL
	Average	110 dB SPL	104 dB SPL
Full-on gain	Peak	47 dB	37 dB
	1600 Hz	40 dB	32 dB
	Average	39 dB	32 dB
Frequency range		100-9200 Hz	100-9200 Hz
Telecoil output (1600 Hz)	1 mA/m field	-	-
	10 mA/m field	-	-
	SPLITS	-	-
Total harmonic distortion (Input 70 dB SPL)	500 Hz	0.3 %	0.3 %
	800 Hz	0.5 %	0.3 %
	1600 Hz	0.7 %	0.3 %
Equivalent input noise level (A)	Omni	21 dB SPL	19 dB SPL
	Dir	-	-
Battery consumption	Quiescent	1.0 mA	1.1 mA
	Typical	1.0 mA	1.1 mA

Estimated battery life (Size 10, IEC PR70)	Typical	80 hours
	Minimum	70 hours
IRIL (IEC 60118-13)	GSM / DECT	-28 / -23 dB SPL



People First

We believe that it takes more than technology and audiology to create the best hearing instruments. That's why we put the individual needs and wishes of people with hearing loss first in our development of new hearing care solutions.