

Magnum Ear Ultra



Low gain recreational ear plug device incorporating noise management for use by people with normal hearing.



Magnum Ear Ultra CE

Feature Summary:

Noise Management offers maximum reduction in noisy environments

18 dB Noise Reduction Rating

Available in custom CE style

Utilizes a custom earmold fit by a licensed hearing professional

Volume Control

Indicator Tones for low battery and memory

Options:

MultiMemory option with memories accessed via a push button

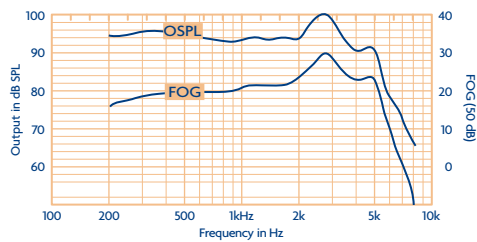
Telecoil available and activated via a push button

Telecoil with microphone available and activated via a push button

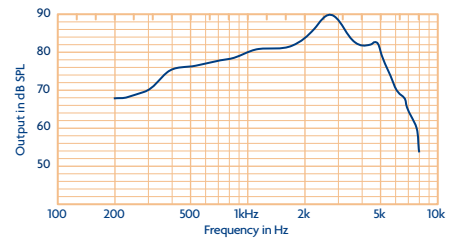


CE

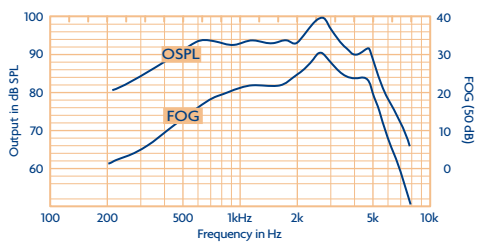
Peak OSPL 90 (dB)	ANSI	100	IEC	100
HFA/ RTF OSPL 90 (dB)		95		102
Peak Gain (dB)		30		43
HFA/ RTF Full On Gain (dB)		23		32
Frequency Range (Hz)		200-6800		NA
Ref. Test Frequency (kHz)		1.0, 1.6, 2.5		1.6
Ref. Test Gain (dB)		18		25
Harmonic Distortion				
500 Hz		<3%		<3%
800 Hz		<3%		<3%
1600 Hz		<3%		<3%
Equivalent Input Noise (dB)		<28		<28
(55-90 ANSI) (55-80 IEC low level)				
Attack Time (ms)		5 ms		5 ms
Release Time 0.1-s		100 ms		150 ms
Release Time 2.0-s		100 ms		150 ms
Induction Coil Sensitivity				
HFA SPLITS (ANSI 96) (dB SPL)		84		N/A
MASL (IEC 118-1) (dB SPL)		N/A		63
Battery Current (mA)		.79		.82
Idle (mA)		.79		.79
Estimated Battery Life for 16 hour day 13 Zinc Air (days)		23		23



OSPL90 and FOG curves for Memory 1 of the Magnum Ear Ultra CE matrix 100/30/10.



TELECOIL: Induction Coil Sensitivity at Full On Gain for the Magnum Ear Digital CE matrix 100/30/10. Data obtained in RMS magnetic field strength of 31.6 mA/meter.



OSPL90 and FOG curves for Memory 2 of the Magnum Ear Ultra CE matrix 100/30/20.

Measurement Conditions

The data for the Magnum Ear Ultra are obtained and performance is expressed according to ANSI S3.22 (1996), *Specifications for Hearing Aid Characteristics*. The data in the table are also measured according to IEC 118-7. The Starkey proprietary Real Time Analyzer comprises the basic test equipment. Data may be subject to change with product refinements.

Because the Magnum Ear Ultra incorporates Noise Management, OSPL90 and FOG measurements should be obtained with an ICRA, or similarly modulated, signal. To reflect the response with the Noise Management system, a composite noise signal should be presented for at least 5 seconds prior to obtaining the response to ensure that Noise Management has been fully activated.

