

Technical Data

CIELO™ 2 Active



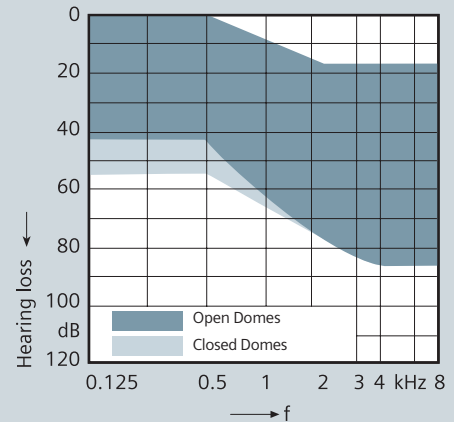
Description

- Receiver-in-Canal (RIC) hearing system with 6 frequency channels and data logging functionality
- CIELO 2 Active is water resistant and rechargeable
- High performance directional microphone, automatic and adaptive operation
- Automatic and adaptive feedback cancellation
- Adaptive noise reduction and speech enhancement in 6 channels
- Wind noise reduction
- Ergonomically shaped receiver unit designed for optimum placement in the ear canal, available in different sizes for the left and right ear
- AquaProtect™: nanocoated housing which repels water and prevents moisture and debris from leaking into the instrument, clip-on microphone cover with integrated GORE™ membrane, and water resistant domes with integrated C-Guard™ technology
- ePocket remote control option for discreet and easy adjustment

Charger

- Up to two instruments can be charged simultaneously
- The instruments work all day on a single night's charge
- 13 size rechargeable batteries or 13 size batteries can be used

Fitting Range



⚠ CAUTION:

This hearing instrument fitted with domes is not intended for use by patients with perforated eardrums or exposed middle ear cavities.

Technical Data

CIELO 2 Active Technical Data

	2 ccm coupler		Ear simulator
	IEC 118-7/A1	ANSI S3.22-2003 IEC 60118-7:2005	IEC 118-0/A1
Output Sound Pressure Level			
at 2.5 kHz	102 dB	–	112 dB
Peak	108 dB	108 dB	118 dB
HFA ¹ -OSPL 90	–	101 dB	–
Gain (Input 50 dB)			
Full-on Gain (FOG) at 2.5 kHz	42 dB	–	52 dB
Full-on Gain (Peak)	45 dB	45 dB	55 dB
HFA-FOG	–	35 dB	–
Reference Test Gain	27 dB	24 dB	37 dB
Frequency Range (DIN 45605)			
Low frequency limit	240 Hz	100 Hz	350 Hz
High frequency limit	5300 Hz	7000 Hz	5500 Hz
Total Harmonic Distortion			
500 Hz	1 %	1 %	1 %
800 Hz	1 %	1 %	1 %
1600 Hz	1 %	1 %	1 %
Equivalent Input Noise	14 dB	17 dB	14 dB
AGC-O (= -21 dB)			
Attack time	–	4 ms	–
Release time	–	100 ms	–
Battery-Type 13			
Battery Current Drain	0.9 mA	1.0 mA	0.9 mA
Battery Life (Cell Zinc Air)	~ 240 h	~ 240 h	~ 240 h
Battery Life (rechargeable)	33-40 h	30-36 h	33-40 h
IRIL² IEC 118-13 (bystander condition)			
800-960 MHz	–	–	-5 dB
1400-2000 MHz	–	–	-13 dB
Directivity at 3kHz	3 dB	3 dB	3 dB

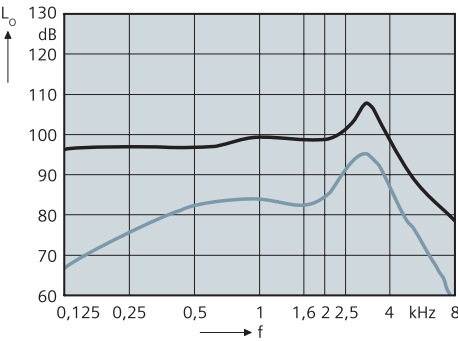
¹HFA= High Frequency Average; ²IRIL=Input Related Interference Level

Technical information for remote control:

Operating frequencies: $f_{\text{low}} = 115 \text{ kHz}$, $f_{\text{high}} = 120 \text{ kHz}$; Rated H-field strength (maximum): $-11,5 \mu\text{A/m}$ at 3 meters.

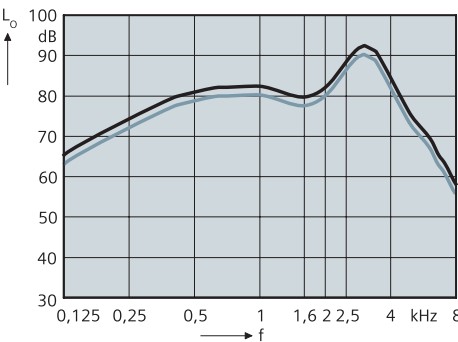
CIELO 2 Active Basic Data

2 ccm coupler



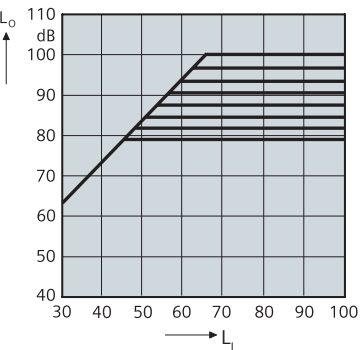
Output Sound Pressure Level
($L_i = 90$ dB)
IEC 118-7/A1;
IEC 60118-7:2005;
ANSI S3.22-2003

Full on Gain
($L_i = 50$ dB)
IEC 118-7/A1;
IEC 60118-7:2005;
ANSI S3.22-2003



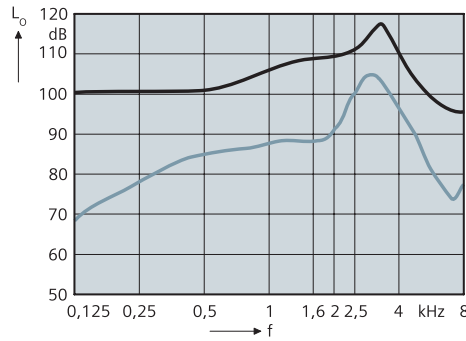
Frequency Response
($L_i = 60$ dB)
IEC 60118-7:2005;
ANSI S3.22-2003

Basic Frequency Response
($L_i = 60$ dB)
IEC 118-7/A1



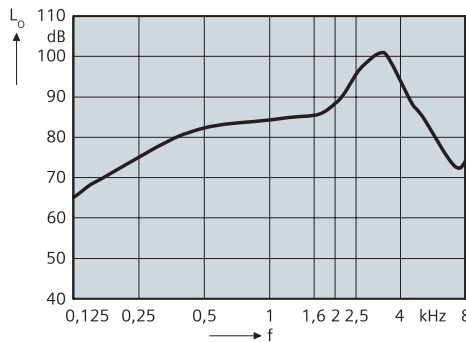
Effect of MPO
(FOG, $f=2$ kHz)
IEC 60118-7:2005;
ANSI S3.22-2003

Ear simulator




Output Sound Pressure Level
($L_i = 90$ dB)
IEC 118-0/A1

Full on Gain
($L_i = 50$ dB)
IEC 118-0/A1



Basic Acoustic Response
($L_i = 60$ dB)
IEC 118-0/A1

CIELO 2 Active

CIELO 2 Active	Accessories
<ul style="list-style-type: none"> • beige (1) _____ 102 958 65 _____ • granite (2) _____ 102 958 68 _____ • grey (3) _____ 102 958 69 _____ • brown (4) _____ 102 958 67 _____ • black (5) _____ 102 958 66 _____ • silver (6) _____ 102 958 71 _____ • pearl white (7) _____ 102 958 70 _____ • golden blonde (30) _____ 102 958 72 _____ • sandy brown (31) _____ 102 958 75 _____ • chestnut (32) _____ 102 958 74 _____ • charcoal (33) _____ 102 958 73 _____ 	 <p>Receiver Units</p> <ul style="list-style-type: none"> • Receiver Unit, 1S L _____ 101 741 57 • Receiver Unit, 2S L _____ 101 741 59 • Receiver Unit, 3S L _____ 101 741 61 • Receiver Unit, 1S R _____ 101 741 58 • Receiver Unit, 2S R _____ 101 741 60 • Receiver Unit, 3S R _____ 101 741 62 <p>Domes</p> <ul style="list-style-type: none"> • Open Domes 6 mm (4pcs) _____ 101 749 01 • Open Domes 8 mm (4pcs) _____ 101 748 97 • Open Domes 10 mm (4pcs) _____ 101 748 99 • Closed Domes 8 mm (4pcs) _____ 101 748 98 • Closed Domes 10 mm (4pcs) _____ 101 749 00 <p>Clip-on Covers</p> <ul style="list-style-type: none"> • Clip-on Cover beige (5pcs) _____ 101 749 03 • Clip-on Cover granite (5pcs) _____ 101 749 06 • Clip-on Cover grey (5pcs) _____ 101 749 07 • Clip-on Cover brown (5pcs) _____ 101 749 05 • Clip-on Cover black (5pcs) _____ 101 749 04 • Clip-on Cover silver (5pcs) _____ 101 749 08 • Clip-on Cover pearl white (5pcs) _____ 101 749 09 • Clip-on Cover golden blonde (5pcs) _____ 101 749 10 • Clip-on Cover sandy brown (5pcs) _____ 101 749 13 • Clip-on Cover chestnut (5pcs) _____ 101 749 12 • Clip-on Cover charcoal (5pcs) _____ 101 749 11 <p>Accessories for charging</p> <ul style="list-style-type: none"> • Charger _____ 101 741 63 • Rechargeable Battery Pack 13 _____ 101 749 24 <p>Accessories for fitting</p> <ul style="list-style-type: none"> • Measuring Gauge _____ 101 745 71 <p>Remote control</p> <ul style="list-style-type: none"> • ePocket _____ 087 848 16

The information in this document contains general descriptions of the technical options available, which do not always have to be present in individual cases and are subject to change without prior notice.

The required features should therefore be specified in each individual case at the time of conclusion of the respective contract.