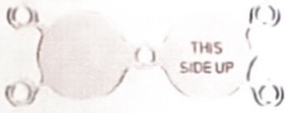
Professional Guide

Sophono® Bone Conduction Hearing System

The Sophono is a magnetic implantable bone conductive hearing system

The Sophono is an excellent option for patients who said "no" to percutaneous abutments

More than 3,000 safe implants worldwide



Actual size

How It Works

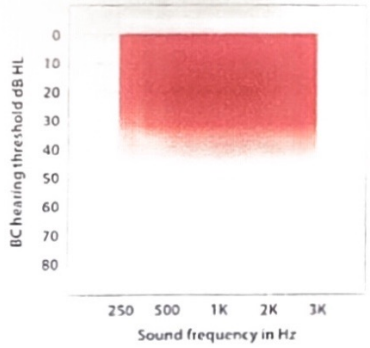
The Sophono implant is placed under the skin above and behind the ear. After healing, the skin and hair look normal, with no titanium abutment protruding through the skin like other bone conduction systems. The implant consists of two magnets hermetically sealed in a titanium case.

The magnetic implant attracts an adjustable-strength magnetic baseplate (connected to the processor). The processor transmits audio vibrations through the skin into the bone where sound is sensed by the cochlea.

TET Technology

Transcutaneous Energy Transfer (TET™) technology enables maximum transfer from the Sophono sound processor, through the patient's skin and magnetic bone implant, to the working cochlea. TET eliminates up to 20 dB of energy reflection on skin typically associated with percutaneous systems.[1]

The best candidates have hearing loss ≤ 35 dB



Indications

- Conductive hearing loss
- Single-sided deafness
- Mixed hearing loss
- Age 5 to adult (implanted); all ages (headband/softband)
- ≤ 45 dB for indicated ear
- ≤ 20 dB in hearing ear (SSD)

Patient Benefits

- Substantial improvement in hearing, speech comprehension, and quality of life!
- Implant lies completely under the skin
- No visible, skin-penetrating abutment
- No permanent bald spot
- No daily site care for patient
- Short time from implantation to full use
- Abutment-free hearing

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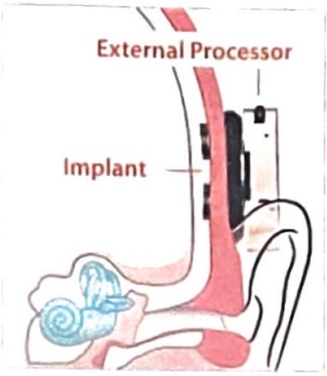
Zarowski, Verstraeten, Somers, Biff and Others in Kompis and Caversaccio (Editors) Implantable Bone Conduction Hearing Aids, Karger, 2011

Sophono®

Professional Guide (continued)

Features

The Sophono audio processor is a completely programmable digital hearing system.

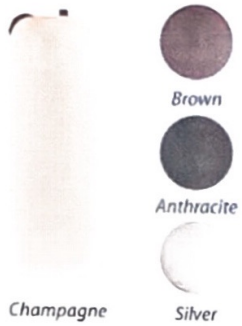


- 8 channels, 16 frequency bands, and 4 programs
- Dual-directional microphone system detects and reduces sound from behind
- Customizable program switching and low-battery warning tones
- Cleared for MRI scanners up to 3 Tesla (FDA, Canadian Therapeutic Products Directorate, ASTM, and CE)
- Tamper-proof battery door
- Direct audio input for FM, personal music players, and mobile phones

Specifications (MPO series)

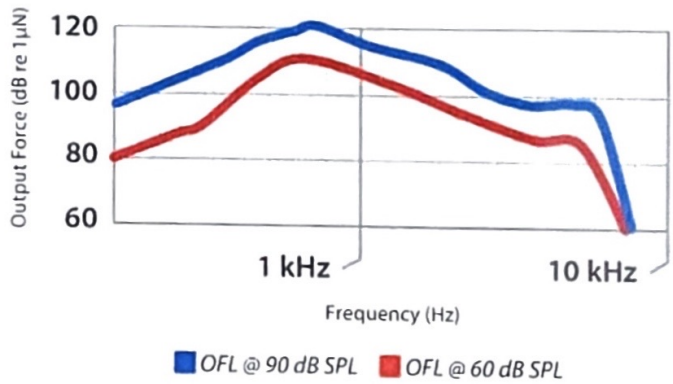
Peak Output Force Level[2] at 90dB SPL re 1µN	120 dB
Output Force Level[2] at 60dB SPL re 1µN	110 dB
Frequency Processing Range	125–8000 Hz
Total Harmonic Distortion	< 3%
Equivalent Input Noise	17 dB SPL
Battery Life	300–320 hours of use
Processor	16-band, 8-channel WDRC
Patient Volume Control Wheel	20 dB range
Power Supply	Type 13 zinc air battery

Available in four elegant colors...



...and with free skinit® decals

Free at Skinit.com/Sophono



[1] Measured on a living human head on skin using the Sophono Sound Capturing System

Clinical Advantages

- Quick, single-stage surgery
- Simple wound care
- Reliable implantation technique
- Implant has no electronic or moving parts

Ask your representative for our clinical studies or visit Sophono.com

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