REF P1431676

Cochlear®
Hear now. And always

Cochlear™ Nucleus® Profile™ Plus with Slim 20 Electrode (CI624)

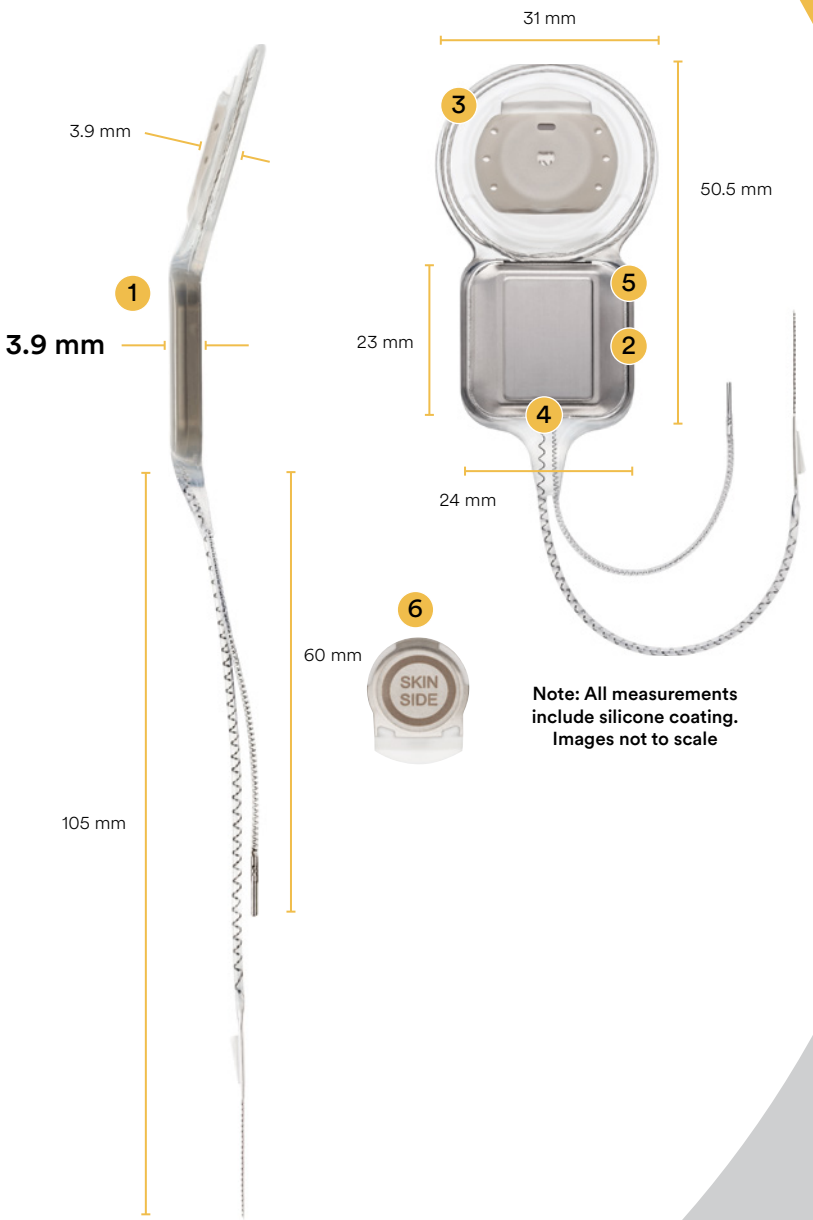
MRI at 1.5 T and 3.0 T with magnet in place

1. The thinnest implant body[1], designed to minimize bone excavation and skin protrusion.
2. Titanium casing, for impact resistance.
3. Implant coil, enabling telemetry.
4. Symmetrical, side by side exit leads from main casing. Same procedure for left and right ear.
5. Smooth external geometry to minimize biofilm formation and reduce risk of infection.[2]
6. Removable magnet to minimize image distortion. MRI at 1.5 T and 3.0 T with magnet in place.[3]

   Circle on magnet indicates the side that should be away from the bone (i.e. skin side).

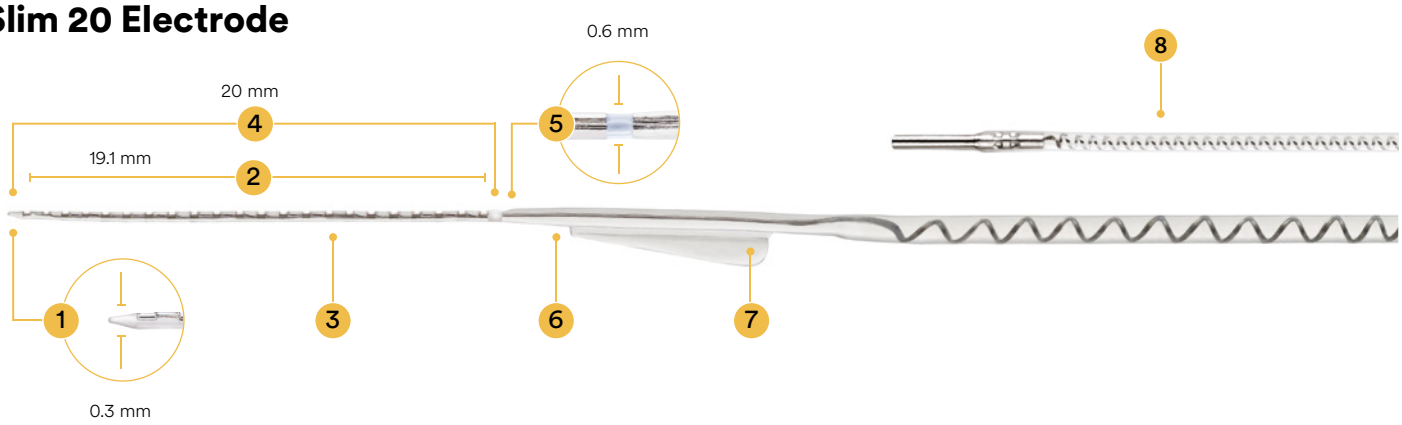
   Sterilized replacement magnet cassette (P782485) and non-magnetic cassette (P782484) to assist MRI procedures available from Cochlear.

Weight	9.2 g including electrode array.
Impact	Resistant against external impact up to 2.5 joules.[4]



Note: All measurements include silicone coating. Images not to scale

Slim 20 Electrode



1. Softip™ measuring 0.3 mm diameter at apical end, shown to minimize insertion trauma.[5]
2. 22 half-banded platinum electrodes delivering the greatest number of spectral channels over 19.1 mm active length.
3. Intracochlear electrode, smooth lateral surface.
4. White marker indicating 20 mm insertion depth.
5. 0.6 mm diameter at basal end.
6. Patented basal stabilization enabling a smooth, single motion insertion for ease of use.
7. Handle intended to aid manoeuvrability and ease of surgical handling.
8. Two extracochlear electrodes (one on the receiver/stimulator and one on the extracochlear electrode lead) designed to provide individualized stimulation and mapping.

✔ The Slim 20 Electrode is suitable for round window or cochleostomy surgeries.

Custom design microelectric platform

Power Efficient

- Stimulus amplitude range: 0 to 1.75 mA.
- Stimulation rates up to 31.5 kHz.

Implant Identification

- Implant ID allows the sound processor to uniquely identify and stimulate the intended implants.

Stimulation Modes

- Monopolar, bipolar and common ground stimulation modes using biphasic current pulses, designed for flexible programming options.

Telemetry Capability

- Ultra-low-noise floor (~1 µV), enabling advanced AutoNRT® telemetry capabilities.
- Includes fully integrated electrophysiology telemetry modes - NRT®, AutoNRT, ESRT, ABR, CEP and intraoperative NRT.

www.cochlear.com

References

1. Compared to all currently available receiver stimulators available from Cochlear and other cochlear implant manufacturers. Based on published device specification information.
2. James G A, Boegli L, Hancock J, Bowersock L, Parker A, Kinney B M, Bacterial Adhesion and Biofilm Formation on Textured Breast Implant Shell Materials, Aesth Plast Surg, October 2018; https://doi.org/10.1007/s00266-018-1234-7
3. Cochlear Limited. D774756 Guidelines Nucleus® implants Magnetic Resonance Imaging (MRI) Guidelines.
4. Data on file, compliant with EN 45502-2-3 Active implantable medical devices - Part 2-3: Particular requirements for cochlear and auditory brainstem implant systems.
5. Roland J T, A model for cochlear implant electrode insertion and force evaluation: Results with a new electrode design and insertion technique, Laryngoscope, vol. 115, pp. 1325-1339, 2005.

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