

How they work

1. Microphone receives sound
2. Speech processor processes sound into digital information.
3. Transmitter relays information to implant.
4. Implant receives information and sends it as a pattern of electrical impulses through a wire.

Auditory nerve

6

Wire

5

Electrode

5. Electrodes at the end of the wire stimulate nerve cells inside the cochlea.

Cochlea

Timpanic membrane

6. Auditory nerve sends signals to the brain, which interprets nerve signals as sound.

3

Transmitter

4

Implant

1

Microphone

2

Speech processor

