

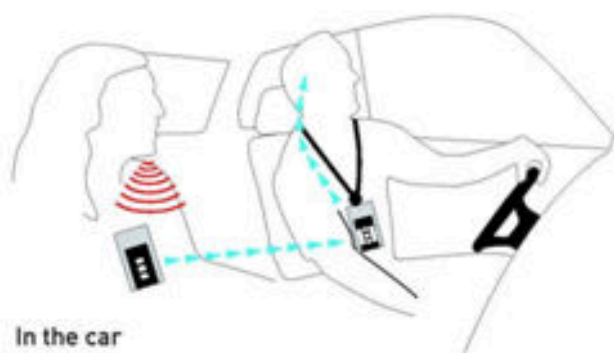
# All About FM Systems

## What is a FM System?

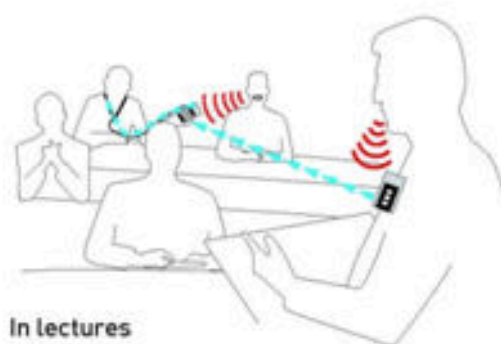
FM Systems are wireless assistive hearing devices that enhance the use of hearing aid(s), cochlear implants and also assist people who are hard of hearing but do not wear hearing aids, in particular over distance and in noisy environments.

They enable sound to be picked up closer to a speaker, sound source or connected directly to the sound source and transmitted to the individual providing greater clarity of speech/sound and a reduction in background noise.

▶ Sound transmission    ))) Speech



In the car



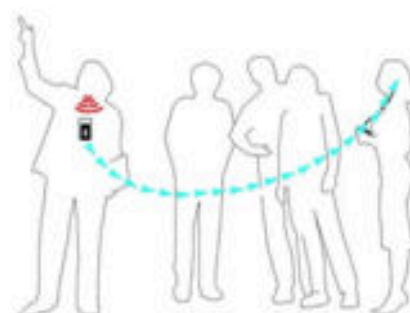
In lectures



Watching TV



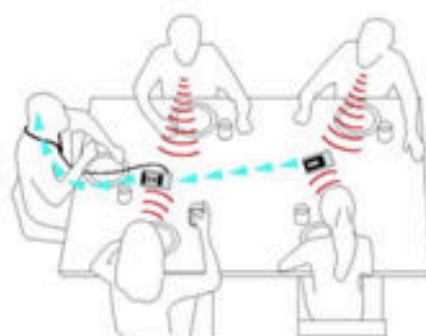
At home



On holiday



Shopping



At the dinner table



Walking

## What is the advantage of a FM System?

FM transmission is resilient to noise and interference helping to preserve the quality and clarity of the sound transmitted.

## How do FM Systems work?

A traditional FM System comprises of two main parts – a radio transmitter and radio receiver. The transmitter captures sound via a microphone or direct connection to a sound source and transmits to the receiver.

**Receivers** have different physical outlines, functions and methods of working with hearing aids or cochlear implants. One functional difference is that some receivers have an inbuilt microphone which depending on the situation can be used without the transmitter.

**Transmitters** on most equipment comes with an integral microphone, an audio input and frequency selection. There is a selection of transmitters for the user to select from to provide a solution for their individual lifestyle. There are also microphones that pick up from greater distances with functions that give the user more control over the quality and clarity of sound they receive and others with features that include Bluetooth and a Transmitter Receiver.

## Frequently Asked Questions

### How are they powered?

The majority of FM Systems have rechargeable batteries and are supplied, as standard, with battery chargers. Operating times are approximately 12 hours to 20 hours.

### Are FM Systems heavy?

No.

### Can you use more than one receiver with a transmitter?

Yes, there are systems that work as a one to one and one to many.

### What distance do they transmit?

Systems vary from 15m to 50m.

### Is it easy to operate?

They are easy to operate.

### Does it work with a cochlear implant?

FM Systems work with cochlear implants.



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