

Phonak Fast Facts



Roger

Bridging the understanding gap

What is Roger?

Roger is based on a new 6.8 million transistors wireless chip, developed by Phonak for people with hearing loss. It makes use of intelligent and adaptive algorithms that avoid interference and optimize operating range. Audio signals are digitized and packaged in very short – microseconds – bursts of codes and broadcast repeatedly at different channels between 2.4000 and 2.4835 GHz. Roger systems monitor continuously which channels are free and adaptively hop around channels occupied by other systems at 2.4 GHz. Digital codes inform receivers which signals are for them and which are not, ensuring privacy for the user. Roger allows for flexible and easy creation of networks of wireless microphones and receivers, without fitting software. Frequency planning is not required.

How does Roger sound?

Roger provides a full audio bandwidth signal up to 7300 Hz, with an ultralow acoustic delay, high internal signal-to-noise ratio and no noticeable distortion.

And in noise?

Roger's new adaptive behavior and beam formers have been proven to give hearing instrument or CI users the best ever speech understanding scores in noise. Ambient noise is measured very precisely by Roger microphones and Roger receivers adjust their volume accordingly automatically. Especially at higher noise levels of 70 to 80 dB the performance of Roger exceeds other wireless technologies by 35 to 54%*. It is not because Roger is digital or because it operates at 2.4 GHz that Roger delivers such performance, it is because of this adaptive behavior.

Roger is a new standard?

Yes, Roger is compatible to most hearing instruments, cochlear implants, Baha- and soundfield systems. It is license free and the same around the world, so users can travel freely and use their Roger systems abroad. Roger is here to stay for many years to come.

*Comparison of Speech Recognition with Adaptive Digital and FM Wireless Technology by Listeners who use Hearing Aids, Professor Linda Thibodeau PhD.

For more detailed information visit:

www.phonak.com/roger

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