

Phonak Roger Portable Room Systems – How They Work

How a Portable Room System Works

In this document we describe the parts of an Ultimate Portable Room System. Depending on need we can reduce or add equipment to the bundle of products to match need.

The Ultimate Portable Room System should adequately meet accessibility needs in respect of hearing loss for rooms up to around 100m² and around 25 attendees. If unsure please ask!

Overview of the Portable Room System

The Ultimate Room System can be thought of as a combination of two separate systems meeting different specific needs. It should be noted that Roger On and Table Mics work together in one system and not with the other transmitters in the bundle. Depending on the situation you might use System 1 one day and System 2 another day.

System 1). Consists of a Roger On primary transmitter and two Roger Table Mics which are transmitters (remote, wireless microphones) and work together sending audio wirelessly to Roger Neckloops – System 1 is more discreet and designed for small and large meetings round a table.

System 2). Consists of a Roger Touchscreen Mic primary transmitter, two Pass Around Mics, along with the Multimedia Hub and DigiMaster speaker system (the media pack add on specific to System 2) - all sending audio wirelessly to Roger Neckloops – designed for more fluid scenarios like training rooms and small venues / presentations up to around 100m².

Overview of Phonak Roger Technology

Before looking at a Room System it is useful to understand the technology inside it – Phonak Roger.

- Hearing at distance - People with hearing loss can struggle with hearing at distance (outside of social bubble distance). Once the speaker is further than your finger tips can stretch out, speech intelligibility decreases exponentially compared to a person without hearing loss.
- Reverberation - A real barrier to speech understanding for people with hearing loss. Soft furnishings in a room help to counter reverberation, and lots of hard surfaces increase it, making it more difficult for a person with hearing loss to understand speech.
- Background noise - Always creates difficulties with people with hearing loss, even with the best hearing aid technology available.
- Video calls and presentations - Audio devices generally can be difficult for people with hearing loss.

How Does Phonak Roger Deliver? – it effectively turbo charges the performance of people with hearing loss by finding and focusing on speech audio in challenging listening environments, cleaning up and processing that audio before sending it wirelessly, securely and effectively direct to the ear of the person with hearing loss. Then the hearing aid takes care of the type and level of hearing loss.

Phonak Roger helps to overcome the problems associated with hearing at distance, where reverberation and background noise is present, and helps generally with audio devices and media – addressing all the above.

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Typical Use Cases

System 1).

Meeting round a table – Roger Neckloop is worn by each attendee wearing hearing aids with a telecoil (loop) program active and selected, or using the provided disposable earphones with the Roger Neckloop if no hearing aids are worn or loop program not available. Volume adjustments are possible via the Roger Neckloop and its control down the side.

For smaller meetings / gatherings the attendee with hearing loss controls the Roger On and either places it on the table or alternatively uses handheld as a pointing device for more focused pick up of individual speakers **OR** a single Table Mic on the table and the Roger On worn either on the lapel or with a lanyard on the lead / main speaker (particularly if more than one attendee with hearing loss).

For larger tables (typically 8 - 25 attendees) as above but using both Table Mics positioned equidistant for maximum coverage, and the Roger On worn either on the lapel or with a lanyard on the lead / main speaker.

The system will automatically focus on speech in the room and help to overcome any difficulties associated with hearing at distance, with reverberation or background noise.

System 2).

Training rooms and small venues where everything is more fluid - Roger Neckloop is worn by each attendee wearing hearing aids with a telecoil (loop) program active and selected, or using the provided disposable earphones with the Roger Neckloop if no hearing aids are worn or loop program not available. Volume adjustments are possible via the Roger Neckloop and its control down the side.

The lead / main speaker wears the primary Touchscreen Mic on a lanyard and the Pass-Around Mics used by attendees in the room as required, whoever needs to speak at any time will need to use one of the Pass Around Mics, the lead / main speaker will be heard at all times via the Touchscreen Mic.

The MultiMedia Hub can be connected to any audio source with standard audio outputs, and the Touchscreen Mic, Pass Around Mics and the MultiMedia Hub all send audio to the DigiMaster speaker so everyone in the room hears the meeting fully and participates easily.

Ideally the DigiMaster speaker is situated in the left or right corner of the room behind the lead speaker and pointing into the room.

All the audio is also transmitted wirelessly and efficiently direct to the Roger Neckloop wearers, ensuring high levels of accessibility.

The Touchscreen Mic can also be used as a table microphone if laid flat in the middle of a small table (up to 7-8 people) but please note when laid flat it mutes all other mics in the system, and until it is again with the lead speaker and working in lanyard mode.

At any one time the Touchscreen Mic and one other transmitter will be working and transmitting, this is to ensure that multiple voices are not streaming at the same time and creating confusion for the people in the room with hearing loss – this is expected behaviour.

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Phonak Roger On



Roger Table Mic x2 & Remote



Phonak Roger Neckloop



Roger Touchscreen Mic



Roger Pass-Around Mic



Roger MultiMedia Hub



Charging Rack with Inserts



DigiMaster Speaker



Custom Case