



Roger Dynamic SoundField

A new era in classroom amplification



PHONAK
life is on

“With [Roger] Dynamic SoundField in class I feel very relaxed and have not had to use my voice above conversation pitch. If I compare that to teaching in another classroom where I have to raise my voice, physically I felt different.”

Jenny Lanigan, teacher, Farnham Primary School,
Bradford, West Yorkshire, England

Why soundfield matters

For the best possible learning experience, students must be able to hear the teacher or lecturer clearly in class. Unfortunately this is not always possible. Factors such as background noise, distance between teacher and students, and challenging room acoustics can make understanding the teacher difficult for children with normal hearing, especially those with Auditory Processing Disorder (APD) or Attention Deficit Hyperactivity Disorder (ADHD) and those who are second-language learners.

Soundfield classroom amplification, where the teacher's voice is amplified to the entire class via a loudspeaker, has long been proven to improve students' listening and learning skills¹. This approach also means teachers don't need to raise their voices to be heard, therefore reducing vocal strain, hoarseness and in cases of temporary voice loss, even time off work.

1. The MARRS Project: Mainstream Amplification Resource Room Study – <http://www.classroomhearing.org/research/marrsStudy.html>





Soundfield challenges



Unwanted noise

Many classrooms, lecture halls and auditoriums have a high level of reverberation, meaning amplified sounds bounce off hard surfaces and produce problematic noise.

Feedback

With some soundfield systems, feedback occurs when the microphone gets close to the loudspeaker. As a result, the teacher's ability to move around the classroom is reduced, and the loudspeaker volume may need to be turned down, limiting student comprehension.

Configuration confusion

Many of today's existing soundfield systems feature adjustable frequency settings and separate volume controls. A qualified technician is often required to set these controls, but no one monitors these after installation to ensure the settings remain accurate.





Roger Dynamic SoundField

Phonak engineers and audiologists designed our Roger Dynamic SoundField system to address those challenges.

Maximum performance

The latest Phonak microchip inside Roger systems powers a unique speech-in-noise algorithm. This generates signal-to-noise ratios that vastly outperform those produced by existing soundfield systems.

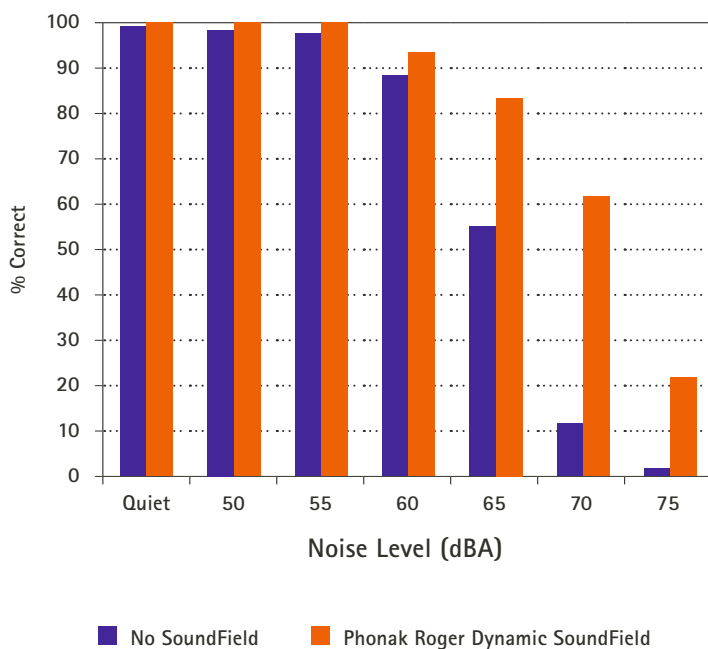


Fig.1
Results for speech-in-noise recognition for normal hearing children. The purple bars represent the condition without soundfield amplification, the orange bars represent the condition with the Phonak Roger Dynamic SoundField system.
(Dr. Jace Wolfe, Phonak Field Study News, Roger Dynamic SoundField)





Zero hassle

Roger Dynamic SoundField transmits sound digitally, automatically alternating frequencies in order to eliminate potential interference with existing WiFi or Bluetooth networks. There is no need for teachers or technical staff to monitor and adjust frequency settings or volume levels. Instead, the system continuously measures the room's noise level and optimizes its own configuration, ensuring speech remains loud and clear. Plug in, turn on and teach.

Full compatibility

The Roger Dynamic SoundField is the only digital classroom solution that can be used simultaneously with multiple microphones and personal receivers.





A solution for every student

Roger inspiro

This wireless teacher microphone is the core component of any Roger system. Suitable for use in all educational environments, it features two wearable microphone options, simplified menus and customizable softkeys.



Roger AudioHub

This flexible interface connects to any multimedia device that has an audio out jack, ensuring students with personal receivers enjoy the same audio experience as their normal hearing classmates.



Roger DynaMic

This sturdy passaround microphone works alongside Roger inspiro in a classroom's MultiTalker Network, allowing the comments of students and secondary teachers to be heard by everyone.



Roger DigiMaster X

For classrooms with other soundfield installations, Roger DigiMaster X is also available to ensure every listener can enjoy Roger-quality speech understanding. Class recording is also available.





Roger Dynamic SoundField solution

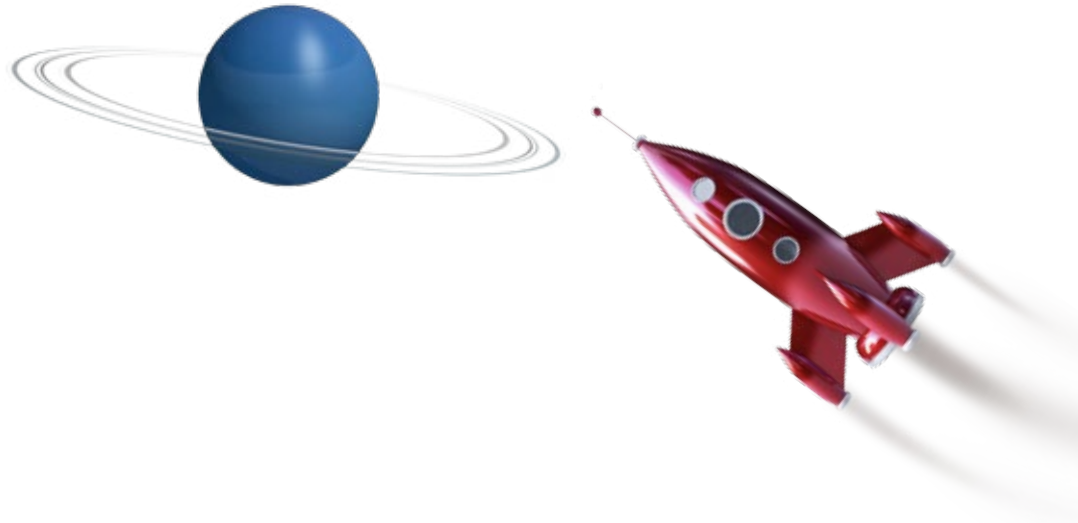
For regular-sized classrooms

Phonak's Roger DigiMaster 5000 system fits the bill perfectly. Featuring one portable Roger DigiMaster loudspeaker (available with floor stand or wall mount) and a Roger inspiro microphone, this system offers the ultimate in instant sound performance.

Loudspeakers	1 Roger DigiMaster 5000
Microphones	minimum 1 Roger inspiro (up to 34 additional Roger microphones including: Roger inspiro, Roger DynaMic)
Room size	100 m ² (1,076 ft ²) and more



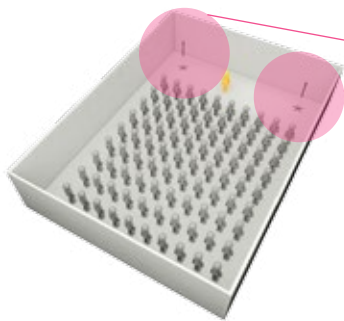
Recommended configuration for regular-sized classrooms



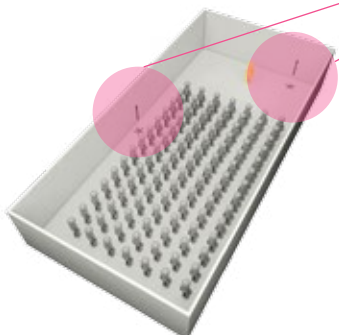
For larger classrooms, lecture halls and auditoriums

Phonak's Roger DigiMaster 7000 is the Roger Dynamic SoundField system of choice. Its two loudspeakers can distribute sound over more than double the area of one Roger DigiMaster 5000. Roger DigiMaster 7000 loudspeakers can also be wall mounted or supplied with floor stands.

Loudspeakers	2 Roger DigiMaster 7000
Microphones	minimum 1 Roger inspiro (up to 34 additional Roger microphones including: Roger inspiro, Roger DynaMic)
Room size	300 m ² (3,230 ft ²) and more



Recommended configuration for square classrooms



Recommended configuration for long classrooms





Compatible with interactive whiteboards and more

Additional multimedia devices such as TVs, laptops and tablets, can be simply connected to the optional Roger AudioHub which wirelessly transmits to the Roger DigiMaster loudspeaker(s).

Roger Dynamic SoundField microphones can transmit directly to personal Roger receivers at the same time as amplifying speech through the loudspeaker for those with normal hearing.



Roger Dynamic SoundField

Maximum performance

Roger offers the industry's best ever speech-in-noise performance.

Zero hassle

Plug in, turn on and teach.

Full compatibility

The only digital classroom solution that can be used simultaneously with multiple microphones and personal receivers.



“The performance of [Roger] Dynamic SoundField is phenomenal. It has the capability of delivering crystal clear voices throughout the room, great battery life, and a static-free environment. Its set-up process is also very easy; just a few presses of the buttons and you’re ready to go. What more could a teacher want from a soundfield system?”

Chris Abston, Assistive Technology Technician,
Redford Union Schools, Redford, MI, USA

Life is on

We are sensitive to the needs of everyone who depends on our knowledge, ideas and care. And by creatively challenging the limits of technology, we develop innovations that help people hear, understand and experience more of life's rich soundscapes.

Interact freely. Communicate with confidence.
Live without limit. Life is on.

www.phonakpro.com

