

PERSONAL AMPLIFICATION SYSTEMS

What are they and how can they help?



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Graphics from Australian Hearing and Phonak

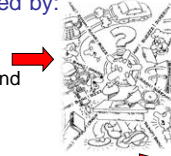


Factors Affecting Listening in the Classroom

How clearly sound travels to a listener is determined by:



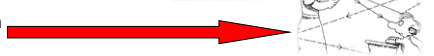
Background noise



Distance



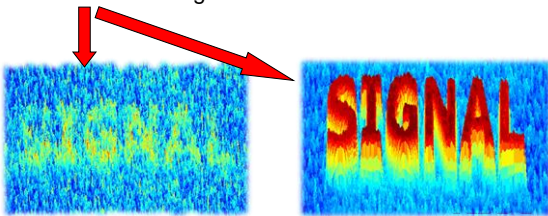
Reverberation



The Challenge

Improve the signal to noise ratio (SNR)

- Signal = speech signal
- Noise = background / environmental noise



Personal Amplification Systems: Part of the Solution



Why Use a Personal Amplification System?



- To make the teacher's voice louder
- Provide consistent loudness of the teacher's voice to a student:
Teacher can move around classroom and the loudness of voice not effected by the distance to student
- Improves the signal-to-noise ratio:
Making the Teacher's voice louder than background noise



Personal Amplification Transmitters



Transmitter Microphones






POSITION, POSITION, POSITION!

Lapel mics

- Should be within 15cm of mouth
- Should be pointing towards your mouth
- Should have the cord fully unwound (This is the aerial for the transmitter)

In-built mics

Device worn around the neck (Roger Pen, EasyLink, SmartLink, ZoomLink)
More settings: Omni, Zoom, Super Zoom

Receivers





Classroom Interactions




<http://www.ridbc.co.uk/watch/View/1174/UKC/learn/learn/04/04/04>

Connecting Transmitters to Electronic Devices

1. Plug the DAI cable (standard accessory) into the headphone socket of the audio equipment (interactive board, computer, iPad, mobile, TV, etc).
2. Plug the other end of the DAI cable into the audio input of the transmitter.



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Direct Audio Input (DAI) Cable

Audio Signal Splitter

Personal Amplification Adaptability






Where do I go for HELP?



Help

Tim Cheesman
Teacher/Consultant (Hearing Impairment)
RIDBC School Support Services
Tel: 0438 445 152
Email: tim.cheesman@ridbc.org.au
Web: www.ridbc.org.au



Online Information

Australian Hearing
<http://www.hearingseminars.com/introductiontofm>
Phonak website for Teachers and other Professionals
<http://www.phonak.com>

RogerPenGuide http://www.phonak.com/content/dam/phonak/gc_hq/b2b/en/products/accessories/rogerpen/_documents/Quick_Guide_Roger_Pen_029-3148.pdf

Cochlear
<http://www.cochlear.com>

