



Roger™ Focus

Because every child deserves the
chance to focus



A Sonova brand

PHONAK
life is on

“Do you have young clients with unilateral hearing loss, autism or auditory processing disorder who have difficulty paying attention? Why not try an approach that is designed to help?”

Because every child deserves the chance to focus

A child’s ability to clearly hear the voices of parents, teachers and other caregivers is a key component of his or her learning and development.

Take school for example. The capacity of a young learner to focus on auditory stimuli such as the teacher’s voice is proven to be the most significant predictor of educational performance.¹

But this focusing isn’t always easy, especially for children affected by autism spectrum disorder (ASD), auditory processing disorder (APD) or unilateral hearing loss (UHL). For these kids, paying attention can be a real challenge, especially when noise levels increase.²

Fortunately there is one type of technology which has been designed to help. Roger Focus.

Wireless microphone and receiver systems such as Roger Focus cut through distracting background noise to bring the speaker’s words directly into a child’s ears. The result? Children with attention-related issues are able to hear and understand more, allowing them to engage more fully with learning and with life.



Focus on helping children to concentrate

As hearing care professionals, you know that wireless technology can improve the speech understanding of children with hearing loss who wear hearing aids or cochlear implants. However, you may not be aware that such systems can also benefit youngsters with otherwise normal hearing who find it difficult to follow a speaker's words.

Children with ASD

Children with autism spectrum disorder (ASD) often experience problems processing sound,³⁻⁵ which can in turn exacerbate their social difficulties. However, several studies have proven that wireless listening technology, such as Roger, can help autistic children to hear better and to act upon the words they hear.

A recent study⁶ explored the sustained use of wireless listening technology in mainstream classroom environments and found that such technology can help children with ASD "understand more speech in class, aid in their social interaction and improve educational outcomes."

A second study⁷ added, "improving the classroom signal-to-noise ratio can significantly enhance listening, attention, and communicative behavior in children with autism spectrum disorders."

"In our six-week study of school-aged children with ASD, FM systems provided significant listening-in-noise, communication and educational benefits. Children could hear the teacher's words better, communicate with fellow students better and were generally more engaged in classroom activities than without the FM."

Gary Rance (PhD), Associate Professor, Department of Audiology & Speech Pathology, The University of Melbourne



Children with APD

Children diagnosed with auditory processing disorder (APD) experience significant listening difficulties⁸ in noisy environments such as classrooms.

However a 2009 study⁹ found that children with APD showed "greater speech-perception advantage" when using wireless microphones and receiver systems. Not only that, but after prolonged use, unaided (i.e. no FM) speech-perception performance also improved, suggesting what the authors described as "the possibility of a fundamentally enhanced auditory system."

Children with UHL

Although speech is audible for children with unilateral hearing loss (UHL), it is not always understandable.

Researchers have found that up to 40% of children with unilateral hearing loss (UHL) fail one or more grades and/or require additional assistance in the classroom, despite them having normal cognitive abilities.¹⁰ And since children with UHL have to make a constant effort to listen and cannot always hear what's being said, they can also become withdrawn, putting them at greater risk of social-emotional difficulties than their normal-hearing peers.¹¹

Several studies¹² have confirmed that increasing the signal-to-noise ratio by way of a wireless microphone and receiver system helps to boost the speech understanding of children with one-sided hearing.

Focus on performance

Roger Focus is a discreet and highly comfortable behind-the-ear Roger receiver. It features a SlimTube, a volume control, and uses a 312 battery. The perfect companion for active explorers, it is also resistant to water and dust*.



- Highly discreet
- Extremely light
- Usable out of the box (no programming)
- One-click microphone connection
- Volume control
- Water and dust resistant (IP57*)
- 17 color options
- Customizable with 4 SlimTubes and 3 sizes of open domes

* IP57 indicates that the device is water resistant and dust protected. It survived immersion in 1 m of water for 30 minutes and 8 hours in a dust chamber as per the IEC60529 standard.



Roger digital technology offers a breakthrough in signal-to-noise ratio and eliminating technical complexity once and for all.

Zero hassle

Nothing is easier to use than Roger. There are no frequencies to program and manage, and devices are connected with a single click.

Full compatibility

Roger Focus can easily be used alongside other types of classroom technology. It has been designed such that it will not interfere with any systems running on 2.4 GHz. It is also fully compatible with the Roger Touchscreen Mic, meaning a teacher can use Roger Touchscreen Mic to transmit speech simultaneously to all Roger and soundfield listeners.

Wearable comfort

Even the best hearing technology is useless if a child does not wear it. Roger Focus is light and comfortable. Plus with four SlimTubes and three dome options available, you can customize this solution to suit every young listener.



Focus on flexibility

Whatever a child's particular lifestyle needs, there is a Roger wireless microphone to match. Users don't need to be technology experts either, since every Roger microphone is simple to connect and use. The result is a family of technologies that children, parents, teachers, and hearing care professionals can trust.



Roger Touchscreen Mic

Roger Touchscreen Mic features a user friendly interface for use in the classroom. With an automatic microphone function, it conveniently switches from an individual talker to a small group interaction mode, depending on its placement.



Roger Select™

Roger Select is a versatile microphone ideal for stationary situations where background noise is present. When placed on a table, it discreetly and automatically selects the person who is talking, and seamlessly switches from one talker to another. When multiple conversations take place, the listener can manually select whom to listen to.



Roger Clip-On Mic

The Roger Clip-On Mic packs industry-leading Roger speech-in-noise performance into a discreet shirt-worn device. It can be used alone or alongside other Roger Clip-On Mics and Roger Pens. It also includes an audio input for listening to multimedia and TV connectivity.



Roger Pen

The inconspicuous Roger Pen enables young listeners to hear and understand in loud noise and over distance. It features fully automated microphone settings and can be used alone or alongside other Roger Clip-On Mics and Roger Pens for communication between multiple speakers. It also features wideband audio Bluetooth for cell phone calling, an audio input for listening to multimedia, and TV connectivity.

Focus on fun

When it comes to bringing a smile to a child's face, there's nothing quite like color. It's with this in mind that Roger Focus is offered in no less than 17 colors.



Phonak also offers a range of online support resources

www.phonak.com/classroom-resources

Online resources designed to help children with hearing loss succeed in the classroom and educate others on hearing loss.

www.phonak.com/parents-resources

Online resources to support parents and their child every step of their hearing journey. Includes BabyBeats™, Leo's World and the Listening Room.

www.phonak.com/teens

A webpage designed specifically for teens, including topics that are particularly relevant for this age group.

www.hearinglikeme.com

Online community for those whose lives are affected by hearing loss. People from all around the world share stories that inspire hope in almost any hearing loss situation.

Focus on evidence

Your full guide to the evidence referenced in this brochure

- Ashburner, J., Ziviani, J., & Rodger, S. (2008). Sensory processing and classroom emotional, and educational outcomes in children with autism spectrum disorder. *American Journal of Occupational Therapy*, 62 (5), 564-73.
- Ornitz, E.M. (1989). Autism at the interface between sensory and information processing. *Autism: Nature, diagnosis and treatment*, 174-207.
- Alcántara, JI., Weisblatt, EJ., Moore, BCJ., & Bolton, PF. (2004). Speech perception in high-functioning participants with autism or Asperger's syndrome. *Journal of Child Psychology and Psychiatry*, 45, pp. 1107-14.
- Alcántara, JI., Cope, TE., Cope, W., & Weisblatt, EJ. (2012). Auditory temporal-envelope processing in high-functioning children with autism spectrum disorder. *Neuropsychologia*, 50, 1235-51.
- Groen, W.B., van Orzo, L., van Horne, N., Winkles, S., van der Gaga, R.J., & Butler, J.K. (2009). Intact spectral but abnormal temporal processing in autism. *Journal of Autism and Developmental Disorders*, 39, 742-50.
- Rance, G., Saunders, K., Carew, P., Johansson, & M., Tan, J. (2013). The use of listening devices to ameliorate auditory deficit in children with autism. *The Journal of Pediatrics*, 164 (2), 352-57.
- Schafer, E., Matthews, L., Mehta, S., Hill, M., Munoz, A., Bishop, R., & Moloney, M. (2012). Personal FM systems for children with autism spectrum disorders (ASD) and/or attention deficit hyperactivity disorder (ADHD): An initial investigation. *Journal of Communication Disorders*, 46 (1), 30-52.
- Johnston, K., John, A., Kreisman, N., Hall, III J., & Crandell, C. (2008). Multiple benefits of Phonak EduLink FM use by children with auditory processing disorder (APD). *Proceedings of the Phonak ACCESS 2 Virtual FM Conference*.
- Johnston, K., John, A., Kreisman, N., Hall, III J., & Crandell, C. (2009). Multiple benefits of personal FM system use by children with auditory processing disorder (APD). *International Journal of Audiology*, 48 (6), 371-83.
- Bess, FH., & Tharpe, AM. (1984). Unilateral hearing impairment in children. *Pediatrics*, 74 (2), 206-16.
- Oyler, R., & McKay, S. (2008). Unilateral hearing loss in children: Challenges and opportunities. *The ASHA Leader*, 13 (1), 12-15.
- Flexer, C. (1995). Classroom management of children with minimal hearing loss. *The Hearing Journal*, 48 (9), 54-58.

Read more at www.phonakpro.com/evidence



Meet Leo
Introducing Leo the lion, our friendly pediatric mascot. This adorable lion cub is the perfect way to introduce hearing solutions to children. Learn more at www.phonakpro.com/leo

Life is on

At Phonak, we believe that hearing well is essential to living life to the fullest. For more than 70 years, we have remained true to our mission by developing pioneering hearing solutions that change people's lives to thrive socially and emotionally. Life is on.

www.phonak.com/rogerfocus

