

Pediatric Quadfold

Sky B and Roger for kids



Roger

Bridging the understanding gap

The benefit of Roger for school-age kids and teens is well known. A recent study conducted with preschool children at Vanderbilt University showed the use of a Roger microphone at home increased their word exposure by approximately **5,300 words in an eight-hour day**. Based on an average hearing aid use time, this is a **42% increase** in parent or caregiver speech made available to a child, compared to using hearing aids alone.¹ When a young child needs **at least 45 million words** spoken to them to be ready

for school, providing a family with a Roger system can really make a difference.

Roger offers the industry's best ever speech-in-noise performance, with proven improvements of up to 35% over Dynamic FM technology and 54% over other FM and digital systems.² Whether at home, in class or in a social setting, the Roger portfolio offers multiple microphones and accompanying receivers to suit listeners of every age.

	Design-integrated for Phonak hearing aids		Universal		
	Roger 19	Roger 18	Roger X	Audio shoe	Roger MyLink
Phonak Sky B-M			•*		•
Phonak Sky B-P		•	•	AS18	•
Phonak Sky B-SP		•	•	AS18	•
Phonak Sky B-UP	•		•	AS19	•
Phonak Sky B-RIC		•	•	AS18	•
Phonak Sky B-PR			•*		•

* Roger X must be used with ComPilot II streamer for this device

Hearing aid	Roger receiver	
Phonak hearing aid	Roger design-integrated receiver	
Hearing instrument & streamer	Roger X with streamer	
Phonak or other manufacturer's hearing aid with telecoil	Roger MyLink	
Phonak or other manufacturer's hearing aid	Roger X with audio shoe	
Other manufacturer's hearing aid	Roger X with streamers	
Implants	Design-integrated for some AB and Cochlear / Roger X / MyLink	

Phonak Sky B



1. Benitez-Barrera, C., Angley, G. & Tharpe, A.M. (2017). *Remote microphone system use at home: Impact on caregiver talk*. Manuscript submitted for publication.
2. Thibodeau, L. (2014). Comparison of speech recognition with adaptive digital and FM remote microphone hearing assistance technology by listeners who use hearing aids. *American Journal of Audiology*, 23(2), 201–210.
3. Rakita, L. (2016). AutoSense OS: Hearing well in every listening environment has never been easier. *Phonak Insight*. Retrieved from www.phonakpro.com/evidence, accessed February 19th, 2018.
4. Feilner, M., Rich, S., & Jones, C. (2016) Automatic and directional for kids: Scientific background and implementation of pediatric optimized automatic functions. *Phonak Insight*. Retrieved from www.phonakpro.com/evidence, accessed February 19th, 2018.
5. Wolfe, J. (2016). SoundRecover2 for Pediatrics: Improving audibility where it matters most. *Phonak Field Study News*. Retrieved from www.phonakpro.com/evidence, accessed February 19th, 2018.
6. Rehmann, J., Jha, S., & Allegro Bauman, S. (2016) SoundRecover2 – the adaptive frequency compression algorithm: More audibility of high frequency sounds. *Phonak Insight*. Retrieved from www.phonakpro.com/evidence, accessed February 19th, 2018.
7. Jones, C., & Rakita, L. (2016). A powerful noise-fighting duo: Roger™ and Phonak directionality. *Phonak Insight*. Retrieved from www.phonakpro.com/evidence, accessed February 19th, 2018.
8. Omisore, D. (2015). Phonak CROS II. Improved speech understanding thanks to binaural beamforming. *Phonak Field Study News*. Retrieved from www.phonakpro.com/evidence, accessed February 19th, 2018.
9. Wolfe, J., Schafer, E., Mills, E., John, A., Hudson, M., & Anderson, S. (2015). Evaluation of the benefits of binaural hearing on the telephone for children with hearing loss. *Journal of the American Academy of Audiology*, 26(1), 93–100.

Roger microphone portfolio

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 Pass-around is designed to enhance classroom discussions so that not only teachers, but all students are heard clearly. With an appealing design, the microphone is the optimal size for kids and teens to hold and fully control.

Roger Select uses MultiBeam Technology and gives teens discreet control in large, noisy conversations. When placed on a table, it can automatically select who is talking, or the user can manually select, with a tap of the microphone, who they want to listen to when multiple conversations are happening at the same time.

Roger Pen offers state-of-the-art wireless technology with superior speech-in-noise and over-distance performance. Packed in a discreet design, its features include fully automated or manual microphone settings and Bluetooth® connectivity, providing an all-inclusive listening experience.

The Roger Clip-On Mic is a small and lightweight microphone worn on a shirt. Perfect for parents and family members, multiple Roger Clip-On Mics can be used together, allowing a child to hear everyone.

Roger Multimedia Hub allows a teacher's voice to be heard simultaneously with an audio signal. Used as a stand-alone device, it can be connected to an audiobook or tablet for individual listening.

Roger receiver portfolio

Roger X is the miniature universal Roger receiver with 3-pin Euro plug that is compatible with virtually all BTE hearing aids, cochlear implant speech processors, and streaming devices.

Roger design-integrated receivers perfectly complement the sleek contours of a Phonak hearing aid and are available in matching colors and tamperproof versions. There are also Roger design-integrated receivers compatible with selected cochlear implants (CIs) from Advanced Bionics, Cochlear, and MED-EL.

Roger MyLink is an easy-to-use universal Roger receiver worn around the neck and compatible with any hearing aid or cochlear implant with T-coil.

Roger Focus is a discreet BTE receiver that cuts through distracting background noise to bring a speaker's words directly into a child's ears. These devices enable children with unilateral hearing loss, children with Auditory Processing Disorder (APD), and children with Autism Spectrum Disorder (ASD) to hear better in noise.



Phonak Sky B: a comprehensive portfolio of pediatric technology

No manual adjustment

Children need to spend their time listening, playing, and learning, not adjusting their hearing aid programs. AutoSense Sky OS is the only* operating system built for a child's listening environment. It is clinically proven to always select the best settings and maximize hearing performance.**^{3,4}

Crystal clear sound

Because it is so important for brain development and speech understanding to hear all aspects of speech, providing high-frequency amplification that is audible but does not distort other sounds is key. SoundRecover2 improves high-frequency speech audibility by utilizing its adaptive frequency-lowering algorithm that is only applied when the level of hearing loss requires it.⁵ Sound quality of low and mid-frequencies is maintained while high-frequency sounds are made audible.⁶

Capturing full conversations

With Phonak Roger and directional setting, children using Sky B get the best of both worlds: superior speech understanding with the Roger system and automatically activated directional microphones on Sky B.⁷

Optimal listening

RogerReady makes adding a Roger receiver to a hearing aid simple. Without the need for additional programming, Sky B devices with direct audio input and Roger ear-level receivers automatically detect the signal from a Roger microphone and activate the 'Roger + Mic' program. This seamlessly allows hearing aids to continuously adapt between AutoSense Sky OS and the Roger program without the need to manually change programs.

Surround sound

The innovative Binaural VoiceStream Technology (BVST) feature in Sky B hearing aids allow each side to work together. It streams the full audio bandwidth bi-directionally in real time, tackling challenging listening situations by simulating what the brain does with sounds from both ears. This linking of two hearing aids ensures that children benefit from hearing speech in both ears, especially in noisy environments, on the phone, or when they can't see the speaker.***^{8,9} This technology also sets the foundation for the Phonak CROS B solution.

* Valid February 2018

** Based on the same technology as AutoSense OS

*** Compared to without Binaural VoiceStream Technology

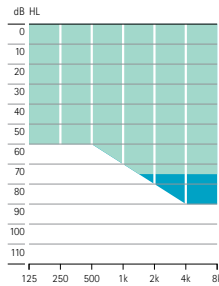
Programs & features

Phonak Belong

		Rechargeable	Programs										Features																		
			AutoSense Sky OS																												
			Comfort in Echo	Speech in Loud Noise	Speech in Car	Music	Comfort in Noise	Calm Situation	Speech in Noise	Speech in Wind	Speech in Loud Noise	Speech in 360°	Acoustic phone	EchoBlock	WindBlock	SoundRelax	DuoPhone	FlexControl	FlexVolume	Real Ear Sound	RogerReady	Roger and directional setting	SoundRecover2	SoundRecover	UltraZoom	auto Acclimatization	WhistleBlock	NoiseBlock	Tinnitus Balance noise generator	QuickSync	Channels
Premium	Sky B90		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	20
Advanced	Sky B70		•				•	•	•	•	•	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	16
Standard	Sky B50		•					•	•	•			•				•	•	•	•	•	•	•	•	•	•	•	•	•	•	12
Essential	Sky B30								•	•			•											•	•	•	•	•	•	•	8

Sky B-M

B90/B70/B50/B30

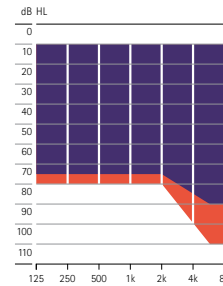


Mild to moderately-severe hearing loss, all audiometric configurations.

- SlimTube HE / Power SlimTube
- Regular Tube

Sky B-P

B90/B70/B50/B30

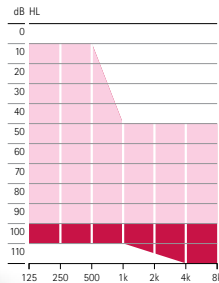


Mild to severe hearing loss, all audiometric configurations.

- SlimTube HE / Power SlimTube
- Regular Tube

Sky B-SP

B90/B70/B50/B30

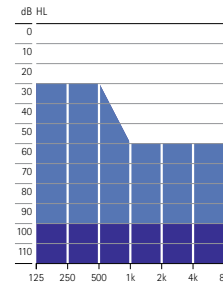


Mild to profound hearing loss, all audiometric configurations.

- SlimTube HE / Power SlimTube
- Regular Tube

Sky B-UP

B90/B70/B50/B30

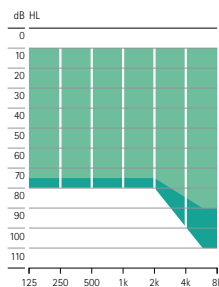


Mild to profound hearing loss, all audiometric configurations.

- SlimTube HE / Power SlimTube
- Regular Tube

Sky B-PR

B90/B70/B50

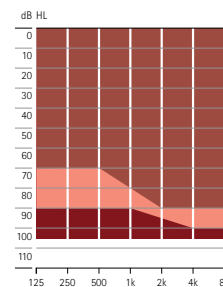


Mild to severe hearing loss, all audiometric configurations.

- SlimTube HE / Power SlimTube
- Regular Tube

Sky B-RIC

(B90/B70/B50/B30)



Moderate to profound hearing loss, all audiometric configurations.

- xS receiver
- xP receiver
- xUP receiver

Let teens connect: Audéo B Direct*

Powered by Phonak Belong technology, Audéo B-Direct is an ideal solution for teens. Enhanced with the proprietary SWORD™ 2.4 GHz radio chip, Audéo B-Direct offers the following benefits:

- Direct connectivity to any cell phone**, for better hearing and socializing with peers
- Easy and discreet volume or program changes to hearing aids
- Phone and video calls with Skype, WhatsApp, FaceTime® via wireless Bluetooth® connectivity to hearing aids**
- Automatic connectivity to TV through the new and compact solution called TV Connector
- Hearing aid can be used as a wireless headset for hands-free calls

What's more, the Phonak Remote app gives teens control over their hearing aids without an intermediary streaming device.



- * Not compatible with CROS B or Roger
- ** With Bluetooth® 4.2 wireless technology and most older Bluetooth phones
- *** The WhatsApp name is a trademark of WhatsApp, Inc.; Skype is a trademark of Microsoft, Inc.; FaceTime® is a trademark of Apple, Inc and Bluetooth is a trademark of Bluetooth SIG Inc.

Phonak Sky B-PR: Rechargeable



Phonak Power Pack – easily attaches to the Phonak Charger Case, ideal for short trips when no power source is available.



Phonak Mini Charger – most compact charging option.



Phonak Charger Case – comes with charger, drying case, protective hard case, and cleaning tool.

Key benefits of Sky B-PR

- 24 hours* of hearing with a charging time of only 3 hours¹³
- Built-in rechargeable battery cannot be removed and swallowed
- Full day** of battery life with one simple charge, even with Roger streaming during a school day
- All of the tested and proven features of Phonak Sky B in a rechargeable device including tamperproof earhook and indicator light

* Expected results when fully charged, with up to 80 minutes wireless streaming time. Please visit www.phonakpro.com/evidence for more information

** 16 hours of hearing with 10 hours of Roger use or audio streaming

Playful design

With an exclusive **Mix & Match** concept incorporating **seven coloured earhooks** and **14 different colour** options for hearing aid housings and Roger receivers, every child can design a hearing aid that truly suits their personality and identity.



Safety and Retention



Tamperproof solution

This unique and effective approach keeps the battery securely in place.

Stick 'n Stay

The double-sided bio-compatible sticker is a safe, effective and proven method to keep hearing instruments behind the ear.



Junior care kits

These kits consist of accessories which can extend a hearing aid's life expectancy and provide long-term trouble-free functionality.

