

Fitting Guide

roger



Roger and Cochlear sound processors Nucleus 5 and Nucleus 6

This guide provides detailed information on how Roger receivers should be used with Cochlear sound processors Nucleus 5 (CP810) and Nucleus 6 (CP910) to achieve the best possible performance.

A 2013 study by Dr. Jace Wolfe of Hearts for Hearing Foundation, Oklahoma City, revealed that the use of Roger systems in combination with cochlear implants resulted in significant improvements in speech recognition at high noise levels (70 to 80 dB (A)) over fixed gain FM and Dynamic FM technologies (see www.phonakpro.com)¹.

Set-up

The table below shows what is required to connect the sound processor to a Roger receiver.

Sound processor	
Cochlear Nucleus 6 (CP910) / Nucleus 5 (CP810) ²	Cochlear Nucleus 6 (CP910) / Nucleus 5 (CP810) ²
	
Roger 14	Cochlear Euro Accessory Adapter and Roger X
Adapter / Roger receiver	

¹Jace Wolfe (2013), Evaluation of speech recognition of cochlear implant recipients using a personal digital adaptive radio frequency system. Accepted by the *Journal of the American Academy of Audiology*.

² Build Standard C or higher.

Pre-fitting

Program the sound processor with the recommended settings according to the table below. This will ensure maximum benefit from the Roger system.

Model	Sound processor setting
Cochlear Nucleus 6 / 5	Set Mixing Ratio to 1:1 and select Autosensitivity™ + ADRO configuration

For Roger 14, no pre-programming is required.

Roger X³ must be pre-programmed. A Roger inspiro is required for programming Roger X.

1. Connect Roger X to the sound processor.
2. Turn Roger inspiro on, hold it close to Roger X (less than 10 cm/4 inches) and select the function Check.
3. Click **Manage**, scroll to 'CI module' then click **OK**.
4. Scroll to 'Setting 9' and click **OK** again.

Model	Recommended CI module setting	Recommended EasyGain	AutoConnect status
Cochlear Nucleus 6 / 5	Setting 9	0dB	OFF

This will ensure that the Roger X output impedances match the input impedance of the sound processor. These settings have been thoroughly tested with CI recipients.

³Available for Roger X (02) only

Getting started

Attaching Roger 14:



Step 1: Attach receiver Roger X

Switch all equipment off. Attach the adapter to the sound processor. Now attach Roger X to the adapter.

Roger 14

Switch all equipment off. Attach the Roger 14 to the sound processor.

Step 2: Switching on

Ask your patient to put on the sound processor and switch it on. The sound processor should automatically detect the presence of the Roger receiver.



Step 3: Connect

Hold the Roger microphone close to Roger X / Roger 14 (within 10 cm/4 inches) and press the Connect button. Your patient should now report that he/she has heard the confirmation beeps (a low tone followed by a high tone).

If your patient didn't hear the confirmation beeps, you may need to manually switch the processor into the DAI program. Repeat this connect process until your patient hears the beeps.

Step 4: Test the system

Test the patient's speech recognition in quiet with the CI alone by muting the Roger microphone and standing close to your patient. Then test the patient's speech recognition through the Roger microphone while standing at least 3 meters away. Listening performance should be similar between these two conditions.



Using Roger via the T-Coil

Alternatively, the receiver Roger MyLink can be used after activating the T-Coil on the sound processor.



Troubleshooting

Signal from Roger microphone cannot be heard	
Sound processor is set in the wrong program	Switch the sound processor to the dedicated FM program
Roger receiver is not connected to the Roger microphone	Connect Roger receiver with the Roger microphone (see Step 3)
Roger microphone is not switched on or is muted	Switch on the Roger microphone and make sure it is not muted (refer to User Guide)
CI user is out of range of the Roger microphone	Ask the CI user to move closer to the Roger microphone to be within its operating range
Batteries are empty	Use fresh batteries or make sure the rechargeable battery pack is full charged
Processor microphones are attenuated	
Mixing ratio	Ensure a 1:1 mixing ratio for Cochlear users is utilized (see recommended sound processor setting table)
Microphone sensitivity	Make sure microphone sensitivity has not been reduced in the FM program
The Roger microphone's signal suffers from interruptions	
The Roger microphone is too far away or shielded by obstacles (e.g. human body)	Reduce the distance between Roger receiver and the Roger microphone, and ensure both devices are in line of sight.

Listening check

Listening option		
MLx Audio Checker and Roger 14	MLx Audio Checker and Roger X	Cochlear Monitor Earphones and Roger 14
		
Roger 14 attached to the "Phonak Roger 14 / ML 14i Checker" and plugged into the MLx Audio Checker	Roger X plugged directly into the MLx Audio Checker	Roger 14 plugged directly into Cochlear Monitor Earphones

Special features for educational system⁴

Programming of EasyGain

If the volume of the Roger system is not satisfactory, you can change the gain of the Roger receiver⁴ via Roger inspiro. Hold Roger inspiro close to Roger receiver (less than 10 cm/4 inches) and press **Check**. Roger receiver information will appear on the inspiro's screen.

Press **Manage**, scroll with the cursor to **EasyGain** and press **OK**. Now you can change the gain of the receiver in the range of -8 to +8 dB.

NOTE: Deactivation of the audio input is possible by using the Cochlear remote control.

⁴Available for Roger 14 (02) and Roger X (02) only.