SOUNDWAVE™
PROFESSIONAL SUITE

ADVANCED BIONICS
A Boston Scientific Company

HiResolution™ Bionic Ear System

Harmony and Auria Connectivity Fitting Card

The smart design of the Harmony and Auria earhooks' enables users to connect to the world in a variety of environments. Both the Harmony and the Auria have a dedicated power supply and auxiliary input port that allows users to take advantage of the one-of-a-kind T-Mic microphone, FireFly diagnostic indicator, and Direct Connect earhook, which enables connection to consumer audio devices, FM systems, loop systems, and a T-Coil.

Attaching/removing an earhook option

Attach: Align the earhook flush with the Auria processor and push to snap in place. Gently pull back to confirm that the earhook is secure.
Remove: Turn the earhook slightly more than 1/4 turn in either direction until it comes off.

Audio-Mixing

Audio-mixing refers to the input ratio between the built-in processor microphone and an auxiliary input device. It allows the processor microphone to remain active when connected to an auxiliary input, so patients can hear their own voices in addition to the auxiliary device (FM system, T-Coil, CD player, etc.).

- Mixing ratios are defined for each program independently.
- Mixing ratios are active whether or not an auxiliary device is connected.

SoundWave Mixing Ratios		Processor
Microphone	**Auxiliary Input**	
Mic Only	On	Off
50/50: Mic/Aux	On	On
30/70: Mic/Aux	On (attenuated by -10dB)	On
Aux Only (Atten.)	Off	On (attenuated by -20dB)
Aux Only	Off	On

T-Mic™ Microphone

The T-Mic microphone is located in the ear canal opening to take advantage of the outer ear's natural sound collecting properties. It is intended to enhance high frequency sounds, signal-to-noise ratio, and localization ability.

- Preferred ear hook option for everyday use.
- Enables normal use of telephones (no switches).
- Enables normal use of headphones for ALDs and consumer electronic connectivity.
- No noise due to electromagnetic interference common to telecoils.

Fitting Tips:

- Program the T-Mic microphone with an Aux Only mixing ratio (100% T-Mic input).
- Keep one Mic-Only program activated on processor.

FireFly™ Diagnostic Indicator (not for use with the Harmony)

The Auria FireFly earhook, most often used by children, has a built-in indicator light that provides caregivers with visual feedback on the Auria's functions and settings.

FireFly will:

- Blink either one, two or three times when the program is switched to slot 1, 2, or 3.
- Light steadily when the system is locked and transmitting a signal.
- Blink on/off rhythmically when the system is not communicating properly.
- Does not light when the battery is depleted.

Fitting Tip:

- The FireFly earhook requires a mixing ratio that includes the processor microphone, typically "Mic Only" or 50/50.

iConnect™

The iConnect™ earhook provides cable-free access to the Phonak MicroLink MLxS, the most common advanced miniatured FM receiver used in schools. With a separate power source, the device is designed to provide reliable FM reception without compromising regular power consumption.

Fitting Tip:

- Please see Auria iConnect Fitting Card.

Harmony and Auria Connectivity Fitting Card

Direct Connect Earhook

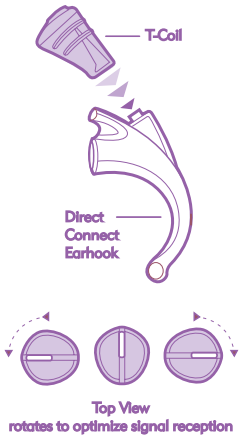
The Direct Connect earhook enables children and adults to connect to many auxiliary devices, including FM systems, telecoils, CD/MP3 players, and more.

Connecting to ALDs and Consumer Electronics:

1. Attach the Direct Connect cable to the Direct Connect earhook.
2. Attach Audio Interface Cable (features a 3.5 mm connector that can be plugged into most commercially available devices). NOTE: FM systems may require a patch cable available from the FM manufacturer or third-party vendor.

Fitting Tips:

- A 30/70 mixing ratio is recommended for ALDs and auxiliary devices. Adjust mixing ratio for patient preference if needed.



Connecting to the T-Coil:

The T-Coil wirelessly connects to loop systems (typically found in public facilities) and hearing aid-compatible telephones.

1. Attach the Direct Connect earhook.
2. Align the T-Coil with the port on the Direct Connect earhook and gently push until the T-Coil snaps in place.
3. Rotate position between upright to 90 degrees left or right to optimize reception. Do not rotate beyond 90 degrees in either direction.
4. To remove, pull T-Coil directly off Direct Connect earhook.

Fitting Tips:

- The T-Coil is generally used with the same program as the T-Mic, typically Aux Only.
- Telecoils commonly pick up magnetic noise generated by fluorescent lights, security systems, and other sources. This background noise may be particularly noticeable in quiet environments. If needed, narrowing IDR will minimize the perception of background noise.

Connecting to the Microphone Test Speaker:

An amplified speaker, like those in a personal computer, is needed to test the Auria microphone. Hand-held amplified speakers are available at RadioShack® for $12 (Audio Amplifier/Speaker #277-1008C: www.radioshack.com). You will also need a Direct Connect earhook and Audio Interface Cable set.

1. Designate a program slot on the processor for microphone testing. Remove any program from the designated slot. This designated slot can be maintained in the processor for direct patient access to mic testing, if desired.
2. Remove the processor from the implant user and ensure it is operating with battery power (do not conduct microphone testing with the processor connected to the fitting system).
3. Assemble the Direct Connect set (or BTE aux audio earhook) with Audio Interface Cable and attach to the processor.
4. Ensure the amplified speaker is turned off and plug the audio interface cable into the speaker's audio input port.
5. Keep the processor a full arm's length away from the amplified speaker to avoid feedback. Slowly increase the speaker volume (hold at arm's length) while speaking into the processor microphone until audible.

Tip:

- Expect to hear feedback or distortion from the amplified speaker if the processor is too close to the speaker or if the speaker's volume is set too high.

CAUTION! Only battery-powered devices should be connected to the Direct Connect earhook, unless a patch cable with special electronic components that electrically isolates the auxiliary device from the processor is used.