

Marvel CI

CLINICAL TOOLS



ADVANCED
BIONICS

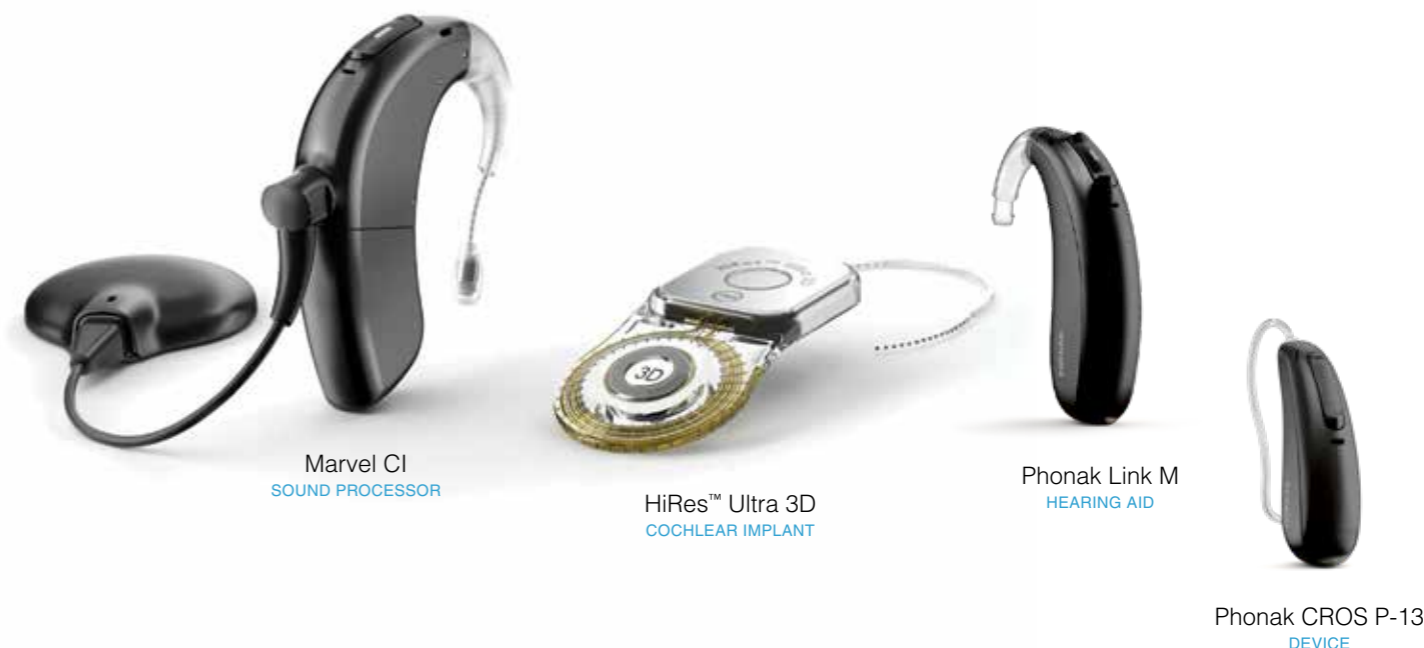
POWERFUL CONNECTIONS

Our Commitment	3
Marvel CI QUICK REFERENCE GUIDE	4
Slim Headpiece QUICK REFERENCE GUIDE	6
Marvel CI PROGRAMMING GUIDE	8
Performing NRI in Target CI PROGRAMMING GUIDE	10
Marvel CI Upgrade PROGRAMMING GUIDE	14
Phonak CROS-13 QUICK START GUIDE	16
Marvel CI Bimodal Solution PROGRAMMING GUIDE	18
M Acoustic Earhook QUICK REFERENCE GUIDE	20
M Acoustic Earhook PROGRAMMING GUIDE	22
AutoSense OS 3.0 QUICK START GUIDE	24
Target CI PROGRAMMING REPLACEMENT MARVEL DEVICES	26
Target CI IMPORTING AND EXPORTING CLIENT FILES	28
Target CI Remote Programming QUICK START GUIDE	30
AB Remote Support app QUICK START GUIDE	34
Marvel CI Connectivity QUICK REFERENCE GUIDE	36
Target CI KEYBOARD SHORTCUTS	38

At Advanced Bionics, our commitment to putting patients first and providing the best possible hearing performance remains at the forefront of what we do. We are honored to have the opportunity to help those with hearing loss enjoy a life without limitations. Marvel CI offers your patients a powerful hearing experience with excellent sound quality in a variety of situations and comes with built-in connectivity solutions. Target CI fitting software is designed for easier, faster, and smarter fittings. It provides a streamlined workflow for a more efficient fitting experience. Remote Programming offers Marvel CI recipients the ability to experience complete programming sessions from a distance.

To fulfill this commitment, we have a dedicated team to support your needs. Please contact your local Advanced Bionics representative who will be glad to assist. We offer:

- **CLINICAL SUPPORT: AUDIOLOGICAL, SURGICAL AND REHABILITATIVE**
- **CUSTOMER SERVICE**



For more information and online resources, please visit AdvancedBionics.com/MarvelCI

Marvel CI sound processors (Naída CI M90, Naída CI M30 and Sky CI M90) offer your patients a powerful hearing experience with excellent sound quality in a variety of situations and comes with built-in connectivity solutions. This guide provides the basic information needed to get started with the fitting, maintenance and troubleshooting.

COMPATIBILITY

Marvel CI sound processors are programmed in the Advanced Bionics Target CI fitting software and are compatible with the following implant types: HiRes Ultra 3D, HiRes Ultra, HiRes 90K Advantage, HiRes 90K and CII.

PRODUCT HIGHLIGHTS

- **AutoSense OS™ 3.0** operating system automatically senses the surroundings and adjusts the signal processing to provide optimum clarity and comfort in different listening situations.
- **Integrated Bluetooth® and RogerDirect technology** allow recipients to stream audio and media wirelessly from their favorite devices. Recipients can stay connected with loved ones with truly hands-free phone calls.
- **Unique ergonomic processor and headpiece design** for a discreet, comfortable, and secure fit.
- **M Waterproof Battery** ideal for swimming and outdoor activities.
- **Remote programming** allows hearing care professionals to provide complete programming sessions in the recipient's own environment.

COMPONENTS

1. M T-Mic™ microphone with cover
2. Sound processor
3. Front microphone
4. Multi-function button with status LED
5. Back microphone
6. M Battery
7. Slim HP with integrated cable



Listening Need	Short Press (< 2 seconds)	Long Press (> 2 seconds ¹)
Standard listening	Volume up or down	Program change ²
During Audio Streaming	Streaming volume up or down	Program change
During Phone Calls	Accept phone call (while ringing) or phone call volume up or down (during call)	Reject phone call (while ringing) or end phone call (during call)






Remote Control Options

For convenient and discreet device management, the AB Remote app, myPhonak app, or myPhonak Junior app allows the recipient to make program and volume adjustments effortlessly. The AB Remote app also helps to perform a simple device check.

1. Pressing the button up or down has the same function.
2. When the multi-function button is used to change programs, whether pressing the top or the bottom part of the rocker, the programs toggle forward. To go backwards, please use the AB Remote app or toggle through the sequence.

Indicator Light (LED) Guide

The indicator light is a programmable feature that provides visual information about the sound processor status, battery life, program position, and sound processor error conditions.

Color	Behavior	Programmable	Indication
	AutoSense: 1 long green blink Program 1: 1 short green blink Program 2: 2 short green blinks Program 3: 3 short green blinks Program 4: 4 short green blinks Blinks during use in response to loud input 3 green blinks upon command by fitting software or AB Remote app	Yes No	Program Change Microphones are responding to loud sound Detect sound processor
	1 purple blink	Yes	Progressive level change, if enabled
	Blue blinking while streaming audio/media	Yes	Receiving streaming information
	One long orange blink at start-up after battery and program status Orange blinking Continuous orange blinking	No No Yes	Flight mode Battery status at start-up: 1 orange blink < 20% 2 orange blinks 20-49% 3 orange blinks 50-84% 4 orange blinks 85%+ Low battery
	Solid red Blinking red, faster than once per second Blinking red, once per second after start-up	No No Yes	Start-up issue/error Wrong implant detected No lock to implant

CARE AND MAINTENANCE

Daily care and proper use of the sound processor and accessories will result in optimal function over time. Wipe the sound processor and components with a soft dry cloth. Do not immerse, or use solvents e.g. soap. Store the sound processor in the drying case every night. The M T-Mic covers should be replaced at regular intervals.

TROUBLESHOOTING

The checklist below and the AB Remote app will help to systematically troubleshoot the device.

- Perform a device check with the AB Remote app
- Check the indicator light
- Try a different program
- Try a different fully charged battery
- Listen to the device with the M Listening Check
- Check and change the Slim HP
- Check other equipment, e.g., charger, etc.
- Check and change the sound processor

FOR MORE INFORMATION

Refer to the Marvel CI User Guide. Refer to the AB website for wireless technology. For North America, refer to myABonline.com. Check with local AB representative for regulatory approvals and product availability in your area.




The Slim HP offers comfort and convenience with a low profile design. This guide provides the basic information needed to get started with the fitting, counseling and maintenance of the headpiece.

COMPATIBILITY

Implants: HiRes Ultra 3D, HiRes Ultra, HiRes 90K Advantage, HiRes 90K and CII.

Sound processors: Naída CI M90, Naída CI M30, Sky CI M90, Naída CI Q Series and Neptune (compatible with Slim HP AquaMic only).

HEADPIECE OPTIONS

 <p>SLIM HP</p> <ul style="list-style-type: none"> No microphone. For sound processor on-the-ear use. 	 <p>SLIM HP MIC</p> <ul style="list-style-type: none"> Integrated microphone. For sound processor off-the-ear use. 	 <p>SLIM HP AQUAMIC</p> <ul style="list-style-type: none"> For use with the M Waterproof Battery for complete protection against moisture, dust. Integrated waterproof microphone (water droplet icon on the underside).
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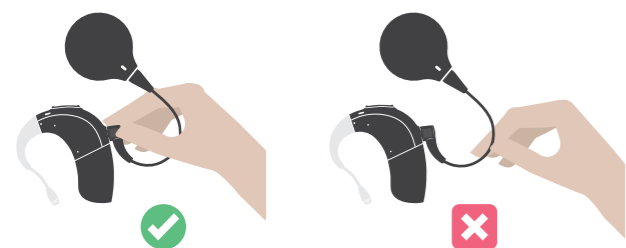
COMPONENTS

- Magnet well
- 3D Magnet (**BLUE**), Standard Magnet (**BLACK**)
- Headpiece microphone (*Only available on selected models*)
- Headpiece cable connector with integrated cable
- Processor cable connector
- Color cap
- Color cap removal tool



OPERATING INSTRUCTIONS

Always hold the cable's strain relief when attaching and removing the headpiece cable from the sound processor.



The arrow on the underside indicates the inlet where the removal tool should be inserted to remove the color cap.

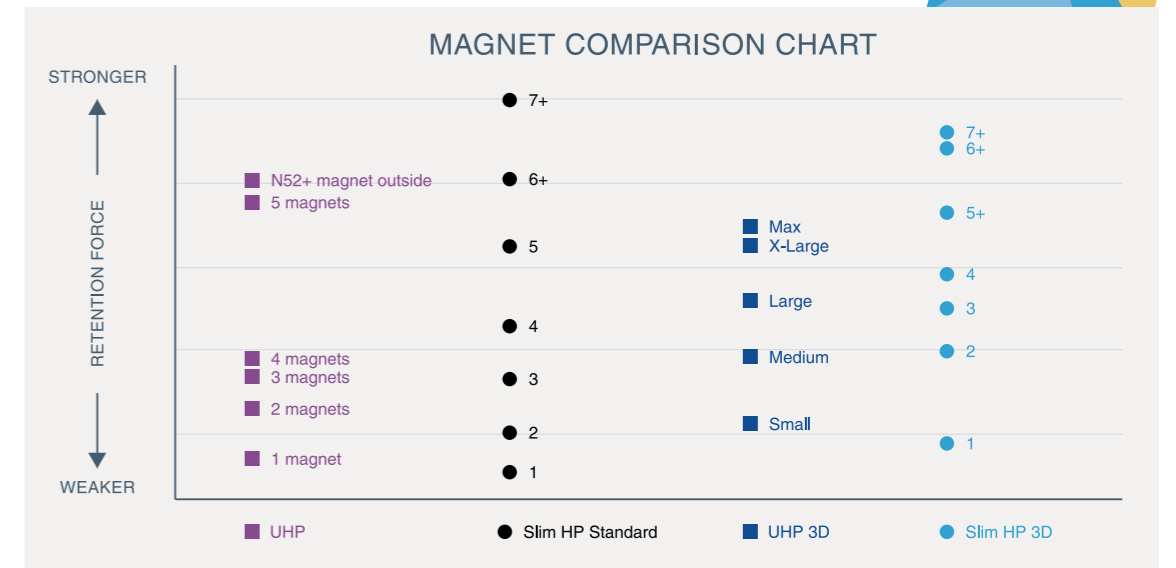
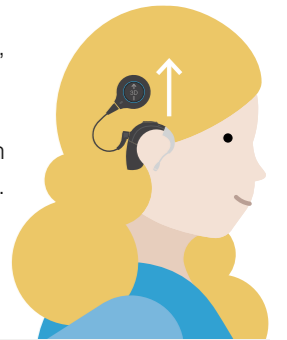


MAGNET SELECTION GUIDE

The CI professional is responsible for evaluating the headpiece magnet strength. It is important to use the appropriate magnet strength to avoid discomfort or retention issues. If magnet strength is insufficient, the headpiece may fall off. If magnet strength is excessive, the user may experience irritation or discomfort.



- Slim HP 3D Magnets are BLUE** for HiRes Ultra 3D implants. The arrow on top of the 3D magnet indicates the direction for alignment: **ensure the arrow points up** when the Slim HP with 3D magnet is on the recipient's head.
- Slim HP Standard Magnets are BLACK** for HiRes Ultra, HiRes 90K Advantage, HiRes 90K and CII implants.
- Magnets are labeled from 1 to 7, corresponding to their magnetic strength.
- Insert the appropriate magnet into the magnet well. Ensure the magnet strength number is facing the underside of the Slim HP i.e. towards the patient's implant.



SLIM HP COLOR CAPS

There are two sizes of Color caps that can be used with the Slim HP, Slim HP Mic, and Slim HP AquaMic: **Standard** and **Large**. The Large Color caps are required for strongest magnet strengths (Standard Magnet sizes 6+ and 7+ and 3D Magnet sizes 5+, 6+ and 7+). These stronger magnets are **not recommended for children ages 3 years and younger**, as these color caps and magnets may become displaced if dropped.

CARE AND MAINTENANCE

Daily care and proper use of the sound processor and headpiece will result in optimal function over time. Wipe the sound processor and headpiece with a soft dry cloth and store the sound processor with the headpiece in the equipment case. Use the AB Remote app or M Listening check to troubleshoot and/or assess the microphone sound quality.

Following use of the Slim HP AquaMic in water, rinse the Slim HP AquaMic with clean water. Remove the color cap, wipe the headpiece upper surface with a soft cloth. Place in an appropriate drying system to dry completely overnight.

FOR MORE INFORMATION

Refer to the sound processor and headpiece instructions. For North America, refer to myABonline.com. If further support or information regarding product availability is required, please contact your local AB representative.

Designed for easier, faster, and smarter fitting, Target CI provides an intuitive and streamlined workflow for a more efficient fitting experience.

FITTING HARDWARE

Marvel CI processors are programmed in Target CI fitting software, using either the Noahlink Wireless or CPI-3 programming interface.

FITTING GUIDE

Open Target CI and follow the steps below to navigate a **unilateral CI fitting**. Work through the tabs from left to right to complete the required fitting steps.

1. CREATE THE CLIENT FILE

For a New client

- Select *New client*. Enter the client details and *Save*.
- Select *New session* to open a new fitting session.¹

For an Existing client

- Search and select the client's file; then, click *Open session*.²
- Remote Programming is available for follow-up programming sessions.



2. CONNECT TO THE HEARING INSTRUMENT

- Connect to the hearing instrument via Noahlink Wireless, CPI-3, or Remote Programming.
- When programming wirelessly, ensure that a fully charged rechargeable battery is used. Remove and re-attach the battery to put the sound processor into pairing mode. Click the *Connect* button within the 3-minute pairing window.
- Verify the side for which the device is intended to be used.
- Once device connection is successful, *Close* to proceed.



3. CONNECT TO THE INTERNAL DEVICE

- Place the headpiece on the recipient's head to achieve lock with the implant.
- For a new client, create a new implant record by clicking on the implant icon and following the prompts to add a new implant.
- Add the required implant information; then, select *Save*.



4. MEASURE IMPEDANCES AND NEURAL RESPONSE IMAGING (NRI)

- Under *Client* access the *Impedance* tab to run impedances and conditioning.
- Access the *NRI* tab to measure NRI, if desired.

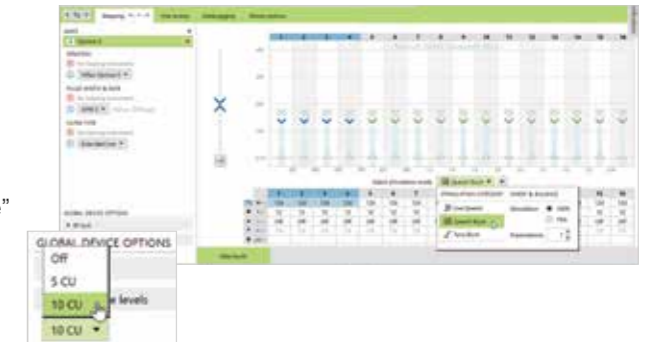


5. SELECT THE ATTACHMENTS

- Under the *Instruments* tab, go to *Acoustic parameters* and ensure that T-Mic/Standard is selected as the appropriate attachment.

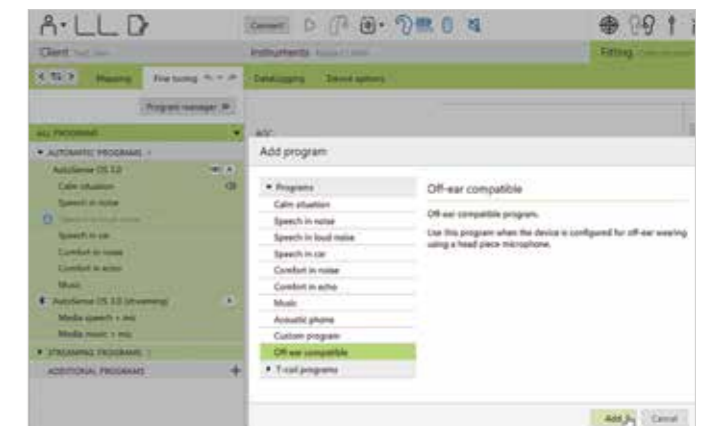
6. CREATE A MAP

- Under *Fitting*, access the *Mapping* tab to set the appropriate map parameters i.e. stimulation strategy, pulse width, etc.
- Select the *Stimulation mode* type to measure M-Levels. T-Levels will default to 10% of the set M-Levels.
- To start and stop stimulation, click the play button, or the “unmute” and “mute” control in the dashboard or press the *F-key*.
- Verify comfort using *Live Speech stimulation*.
- If desired, create progressively louder levels under *Global device options*.³



7. FINE TUNING

- *AutoSense OS™ 3.0* operating system offers one easy-to-use automatic program that senses the recipient's listening environment and adjusts the device automatically.
- Confirm settings for the *AutoSense OS* program, as desired.
- Add any *Additional programs* [+], if required, based on the recipient's unique listening needs. For example, select *Off-ear compatible* for off-ear device usage with the headpiece microphone active.
- Confirm settings in the *Map options* tab, as desired.⁴
- Access the *Program options* tab to fine tune individual programs further, if desired.⁵



8. MANAGE DEVICE OPTIONS

- Access the *Device options* tab to manage Manual controls, Bluetooth®, Signals & alerts, Indicator light, Startup and Datalogging, as needed, based on each recipient's unique preferences.
- For ease of discovering the device during Bluetooth pairing, access the *Bluetooth* tab and label each side with the recipient's name.



9. SAVE AND CLOSE THE SESSION

- Select *Save & close session* to finalize the fitting session.
- Run and review the sound processor *Battery estimation*, if desired.
- Add any notes to the fitting session, if desired.
- Follow the prompts to *Save* the fitting session to the Hearing instruments and/or the Database.
- Select *Close* to complete the fitting session.

If further support is required, please contact your local Advanced Bionics representative.

1. Always enter the client's *Date of birth* so that the appropriate default settings can be applied.
2. Open session should be used at all follow-up visits to allow access to past impedance and NRI data.

3. The recipient can adjust the progressive level using the multi-functional button or the AB Remote app.
4. IDR, ClearVoice and SoftVoice settings are applied to all automatic programs and streaming programs.
5. Microphone mode and comfort features can be adjusted in the Program options tab for each individual program, if desired.

Neural Response Imaging (NRI) is a valuable tool used by hearing care professionals to obtain an objective measurement of the electrically-evoked compound action potential (eCAP) which can assist with intra-operative testing and post-operative cochlear implant programming. This guide provides the basic information needed to get started with performing NRI in Target CI.

FITTING HARDWARE

NRI can be performed in Target CI fitting software using a Marvel CI sound processor and either the Noahlink Wireless or CPI-3 programming interface. NRI can be conducted during a Remote Programming session also.

PERFORMING NRI MEASUREMENTS

1. OPEN TARGET CI

2. ACCESS THE CLIENT FILE AND OPEN A FITTING SESSION

For a New client:

- Select *New client*. Enter the client details¹ and *Save*.
- Select *New session* to open a new fitting session.

For an Existing client:

- Search and select the client's file; then, select *Open Session*².

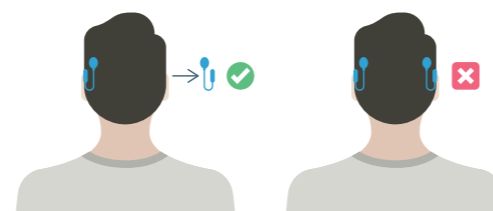
3. CONNECT TO THE HEARING INSTRUMENT

- Connect to the hearing instrument via Noahlink Wireless, CPI-3, or Remote Programming.
- When programming wirelessly, ensure that a fully charged rechargeable battery is used. Remove and re-attach the battery to put the sound processor into pairing mode. Select the *Connect* button within the 3-minute pairing window.
- Verify the side for which the device is intended to be used.
- Once device connection is successful, *Close* to proceed.



4. CONNECT TO THE INTERNAL DEVICE

- Place the headpiece on the recipient's head to achieve lock with the implant.
- For a new client, create a new implant record.
- Remove the contralateral sound processor³ prior to running NRI (if applicable). Otherwise, excessive noise will be observed in the NRI tracing.



5. REVIEW IMPEDANCES

- Under *Client*, access the *Impedance* tab to review impedances and run conditioning, if desired.
- Only run NRI on electrodes with normal impedances⁴.

6. ACCESS NEURAL RESPONSE IMAGING (NRI)

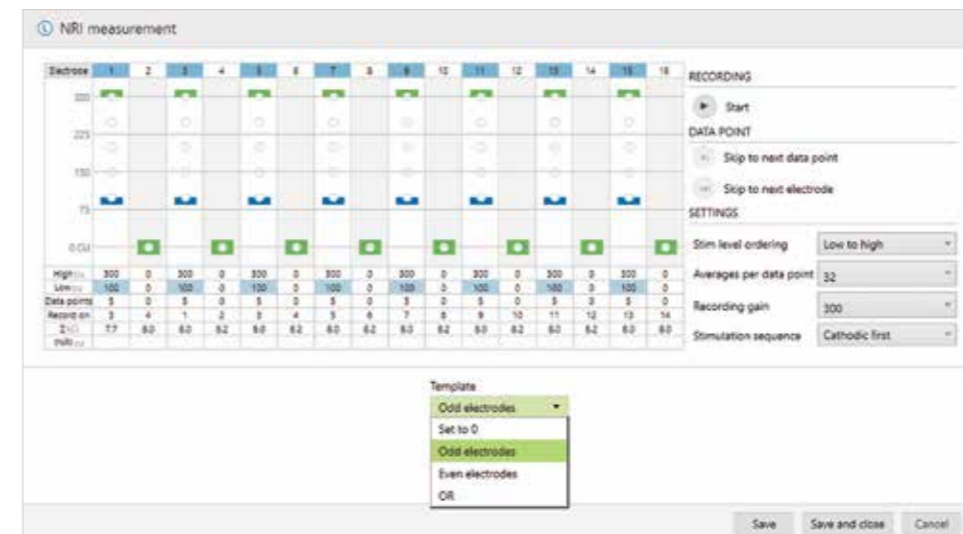
- Under *Client*, access the *NRI* tab to measure NRI⁵.
- Select *New measurement* to open the NRI measurement window.

 New measurement

1. Always enter the client's Date of birth so that the appropriate default settings can be applied.
 2. Open session should be used at all follow-up visits to allow access to past impedance and NRI data.
 3. It is okay for the recipient to wear contralateral hearing aid during NRI measurements.
 4. Do not perform NRI on extra-cochlear, shorted, open, or out of compliance electrodes.
 5. Due to probable impedance changes after surgery, it is best to re-run NRI in the clinic prior to creating new maps for the recipient instead of using NRI data collected in the OR.

7. DETERMINE ELECTRODES TO MEASURE

- Select a template, if desired.



- NRI template settings are automatically applied based on the recipient's age.

Adult NRI Templates

ODD ELECTRODES	EVEN ELECTRODES	OR	SET TO 0
Electrodes: 1, 3, 5, 7, 9, 11, 13, & 15 Low CU = 100 High CU = 300 Data points = 5 Stim Level Ordering = Low to high	Electrodes: 2, 4, 6, 8, 10, 12, 14, & 16 Low CU = 100 High CU = 300 Data points = 5 Stim Level Ordering = Low to high	Electrodes: 3, 7, 11, & 15 Low CU = 150 High CU = 400 Data points = 5 Stim Level Ordering = High to low	Electrodes: 1 – 16 Low CU = 0 High CU = 0 Data points = 0 Stim Level Ordering = Low to high

Pediatric NRI Templates

ODD ELECTRODES	EVEN ELECTRODES	OR	SET TO 0
Electrodes: 1, 3, 5, 7, 9, 11, 13, & 15 Low CU = 50 High CU = 250 Data points = 5 Stim Level Ordering = Low to high	Electrodes: 2, 4, 6, 8, 10, 12, 14, & 16 Low CU = 50 High CU = 250 Data points = 5 Stim Level Ordering = Low to high	Electrodes: 3, 7, 11, & 15 Low CU = 150 High CU = 400 Data points = 5 Stim Level Ordering = High to low	Electrodes: 1 – 16 Low CU = 0 High CU = 0 Data points = 0 Stim Level Ordering = Low to high

8. ADJUST NRI SETTINGS, IF DESIRED

- Set High and Low CU values for electrode(s) to be measured.
 - Behavioral M-Levels can be used as a guide to establish initial low and high CU values.
 - A minimum range of 150 – 200 CU should be considered where the low CU value results in one or two responses within the noise floor.
- Choose number of *Data points*, as appropriate.
 - Target CI will populate 5 data points by default; however more can be added, as needed.
 - Unmeasured data points are indicated by an open circle. Filled data points indicate a completed measurement.
- Choose the appropriate *Stim Level Ordering*.
 - Select *Low to High* for use in the clinic.
 - Select *High to Low* for use in the operating room.

9. SELECT START

- NRI will continue to conduct measurements until all data points have been obtained.
- When measuring NRI post-operatively, monitor the recipient for signs of discomfort while NRI is running to ensure stimulus levels are not exceeding the recipient's comfort levels.
- Press *Pause* or the *F-key* to stop running a measurement at any time.

10. NRI ANALYSIS

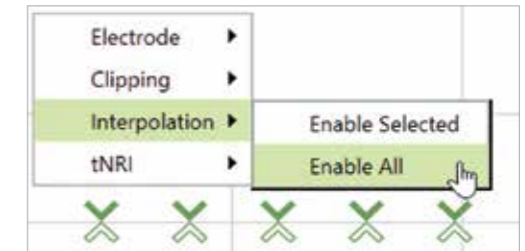


FITTING GUIDE

1. CREATE A MAP USING NRI DATA

tNRI markers are displayed in the Mapping tab by default.

- Access the *Fitting* tab to begin the fitting process.
- In the *Mapping* tab, right-click on any channel and select *Interpolation*; then, *Enable all*. All markers will change to unfilled or open arrows.
- On channels with measured tNRI, set M-Levels to tNRI values.
- Confirm *Live Speech* as the stimulation mode.
- Globally reduce the M-Levels slightly to ensure recipient comfort and *Start stimulation*.
- Gradually increase M-Levels to find recipient's most comfortable level (level 6 on the loudness scale).
- Consider loudness balancing across each electrode.
- Verify settings (i.e. Ling Sounds, soundfield detection, etc.).



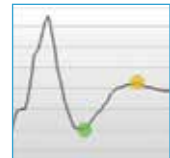
2. FINALIZE THE FITTING SESSION

- Continue with fitting process by managing program settings in *Fine Tuning Tab*.
- *Save and close* the fitting session.

NEURAL RESPONSE IMAGING (NRI) RESOURCES

- Koch, D. B., Overstreet, E.H. (2003). Neural Response Imaging: Measuring Auditory-Nerve Responses from the Cochlear with the HiResolution™ Bionics Ear System. Advanced Bionics White Paper.
- He, S., Teagle, H., Buchman, C. (2017). The Electrically Evoked Compound Action Potential: From Laboratory to Clinic. *Frontiers in Neuroscience*, Volume 11, Article 339.
- Hughes, M., Audiology Online. *Fundamentals of Clinical ECAP Measures in Cochlear Implants Part 2: Measurement Techniques and Tips*.

GOOD RESPONSE



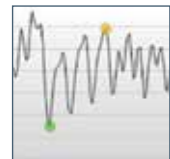
- It is important to obtain 1-2 data points within the noise floor and a minimum of 3-4 data points rising from the noise floor for an accurate calculation of tNRI.
- Confirm accuracy of selected N1 and P2 peaks for each waveform. N1 and P2 latencies will remain stable with increased stimulation levels.

NO RESPONSE



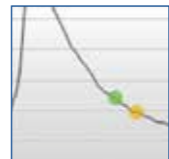
- If there is no visible response:
- Increase the stimulation level (up to levels of compliance), while monitoring recipient for comfort.
 - Use a different recording electrode to measure the NRI response.

NOISY RESPONSE



- If waveform tracing appears noisy:
- For bilateral recipients, confirm that the contralateral processor is removed.
 - Increase the number of Averages per data point.

RESPONSE WITH ARTIFACT



- If artifact is present, use a different recording electrode to measure the NRI response.

- Verifying correct tNRI values prior to saving and closing the session will ensure correct tNRI values are calculated.
- To repeat measurements in future sessions, use the copy setting function, as shown below.



11. SAVE NRI MEASUREMENT

- *Save and close* the NRI measurement.

This guide provides the fitting steps needed to upgrade an existing recipient to Marvel CI.

FITTING HARDWARE

Marvel CI sound processors are programmed in the Target CI fitting software, using either the Noahlink Wireless or CPI-3 programming interface.

FITTING GUIDE

When migrating client data from SoundWave 3.2 to Target CI, it is recommended that individual client files be migrated at the time that each recipient chooses to upgrade to Marvel CI. This ensures that the most recent recipient information is transferred to Target CI at the time of the upgrade.

1. VERIFY SETTINGS IN SOUNDWAVE 3.2

- Ensure that the recipient has a visit history for a Naïda CI Q sound processor. Migration will not occur for sound processors prior to Naïda CI Q. Only the most recent visit history will be migrated. If there is no Naïda CI Q visit history for a given side, that side will not be migrated.
- Ensure the recipient's preferred program is saved to Program Slot 1, as information from Program Slot 1 in the most recent SoundWave 3.2 Visit History will be migrated to Target CI¹.
- Note the client's date of birth in SoundWave 3.2. Close SoundWave 3.2 fitting software².

2. OPEN TARGET CI AND MIGRATE CLIENT DATA

If Target CI is used as standalone software, migrating client data will add a new client to the database.

If Target CI is installed as a Noah module, it's necessary to first enter the recipient demographic information into Noah, select the client, and open a new fitting session.

- In Target CI access the *File* menu and select *Migrate client data*³.
- Enter the required information in the *SoundWave Client Data Migration* window (Modification dates, Creation dates, Birth dates).
 - Enter the date of birth accurately.
 - Enter a wide Modification⁴ and Creation date under the Min date e.g. dd/mm/2000; then, click Start.
- Verify the client's name. Confirm that the appropriate sound processor is chosen for the upgrade.
- Click *Start* and follow any prompts.
- The session is now available in the client file. The *Notes* section of the client details will indicate the session was migrated^{5,6}.

For pediatric Marvel CI upgrades:

- Target CI will ask if the hearing care professional wants to apply *Junior mode* default settings (based on the client's age) to the map.
- Target CI will prompt the hearing care professional to choose between *Create new fitting* or *Keep current mapping parameters and match Junior mode defaults*.
- Select *Keep current mapping parameters and match Junior mode defaults* to maintain the recipient's current map parameters.
- Select *Create new fitting* to reset the recipient's map parameters.

3. CONNECT TO THE HEARING INSTRUMENT

- Connect to the hearing instrument via Noahlink Wireless, CPI-3, or Remote Programming.
- When programming wirelessly, ensure that a fully charged rechargeable battery is used. Remove and re-attach the battery to put the sound processor into pairing mode. Click the *Connect* button within the 3-minute pairing window.
- Verify the side for which the device is intended to be used.
- Once device connection is successful, *Close* to proceed.

1. The SoundWave 3.2 file must have a Visit History and IntelliLink™ enabled in order to migrate the recipient information.
 2. It is important to close both SoundWave 3.2 and Target CI between migration. This ensures that the most current data is migrated from SoundWave 3.2 to Target CI.
 3. Migrate one patient file at a time.
 4. Modification date is the date the most recent visit history was created.
 5. Client files will not be migrated if the recipient has no active implants or is identified as a test patient.
 6. If the SoundWave file contains a C1 implant, the C1 data will not be migrated. If the recipient is bilateral, only data for a non-C1 implant will be migrated.



4. CONNECT TO THE INTERNAL DEVICE

- Place the headpiece on the recipient's head to achieve lock with the implant. Lock must be achieved prior to making any changes to the *Implants* tab. If lock is not achieved, the sound processor will not stimulate the implant and the fast blinking red LED will be observed.

5. SELECT THE APPROPRIATE ATTACHMENT

- Under the *Instruments* tab, go to *Acoustic parameters* and ensure that *T-Mic/Standard* is selected as the appropriate attachment.

6. MEASURE IMPEDANCES AND NEURAL RESPONSE IMAGING (NRI)

- Impedances will run automatically. Under *Client*, access the *Impedance* tab to run impedances.

7. VERIFY THE MAP SETTINGS AND COMFORT

- Under the *Fitting* tab, access *Mapping* to verify the electrical parameters like M-Levels and T-Levels, Strategy, Pulse Width, IDR, etc. The settings in the table below should be considered.
- Verify comfort using *Live Speech stimulation*.

The following settings from the SoundWave 3.2 data migration should be considered:

SETTINGS PRESERVED FROM SOUNDWAVE

- M-Levels / T-Levels
- ClearVoice – If Enabled in SoundWave 3.2, will be set to Medium in Target CI.
- SoftVoice
- IDR
- Disabled / Spanned / Clipped electrodes
- Strategy
- Filter type
- RF (Set to AutoVoltage or Manual)
- Electrical gain settings

RE-EVALUATE IN TARGET CI

- Acoustic parameters – The audiogram must be manually entered in Target CI.
- Pulse Width – May be impacted by New Impedance Measurement.

SETTINGS DIFFERENT IN TARGET CI

- Program structure – AutoSense OS now available
- T-Mic + Processor Mic – This microphone option is not available for Marvel CI

CANNOT BE MODIFIED IN TARGET CI

- QuickSync is always enabled
- Volume Min/Max (±20%)

8. FINE TUNING

- Access the *Fine tuning* tab to verify the program settings. Confirm settings in the *Map options* tab, as desired.
- Access the *Program options* tab to fine tune individual programs further, if desired.

9. MANAGE DEVICE OPTIONS

- Access the *Device options* tab to manage Manual controls, Bluetooth®, Signals & alerts, Indicator light, Startup and Datalogging, as needed, based on each recipient's unique preferences.
- For ease of discovering the device during Bluetooth pairing, access the *Bluetooth* tab and label each side with the recipient's name.

10. SAVE AND CLOSE THE SESSION

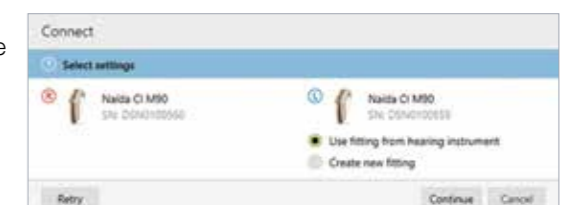
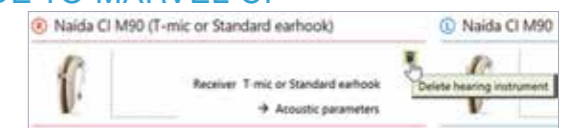
- Select *Save & close* to finalize the fitting session.
- Run and review the sound processor *Battery estimation*, if desired.
- Add any notes to the fitting session, if desired.
- Follow the prompts to *Save* the fitting session to the Hearing instruments and/or the Database. Select *Close* to complete the session.

BILATERAL RECIPIENTS UPGRADING ONLY ONE SIDE TO MARVEL CI

- When migrating a recipient's SoundWave 3.2 file into Target CI, data from both sides are migrated over. For a simpler fitting experience, it may be helpful to delete the hearing instrument on the side that you do not intend to upgrade, in the *Hearing Instruments* tab.
- Access the *Fine Tuning* tab. Under *Automatic programs*, ensure *Speech in loud noise* is not enabled (this program requires a compatible hearing instrument on the contralateral ear).

When upgrading the second side to Marvel CI:

- Simply repeat the migration of the recipient's SoundWave 3.2 file into Target CI.
- When connecting to the hearing instruments, select *Use fitting from hearing instrument* on the side that was previously upgraded. Select *Continue* to proceed with the fitting.



MARVEL FROM EAR TO EAR!

Advanced Bionics and Phonak work together to provide every recipient with a two-ear hearing solution. Phonak CROS P-13 is available for Marvel CI recipients with unaidable hearing in the non-implanted ear.



- 1 CROS wirelessly transmits the microphone input signal from the non-implanted ear to the Marvel CI sound processor.
- 2 Marvel CI receives the signal and delivers it to the implanted ear.

Marvel CI + CROS provides recipients with access to sound from both sides and allows them to hear their best in all environments.

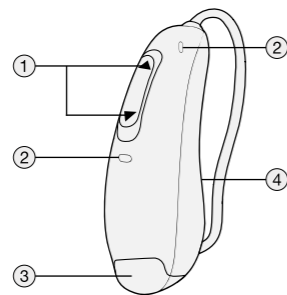
COMPATIBILITY

CROS is compatible with the Naída CI M90/30 and Sky CI M90. CROS can be programmed with Target CI v1.5 or later, and Noahlink Wireless.

OVERVIEW

PRODUCT COMPONENTS

1. Multifunction Button
2. Microphones
3. Battery Compartment
4. Right or Left Indicator



EARPIECE OPTIONS

Standard Dome (CROS Tube)

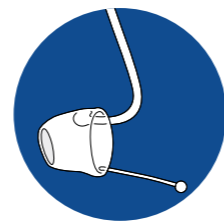
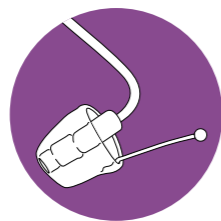
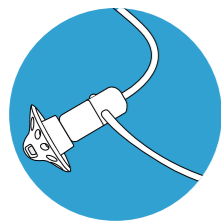
- Dome available in three sizes (S, M, L)
- Right and Left
- Available in four lengths (0, 1, 2, 3)

SlimTip (CROS Tube)

- Custom-made earpiece
- Right and Left
- Available in four lengths (0, 1, 2, 3)

CROS Tip

- Fully custom-made earpiece
- Available in four lengths (0, 1, 2, 3)



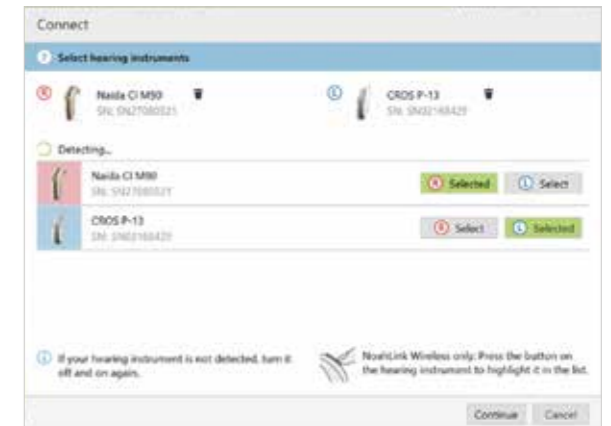
WIRELESS COMMUNICATION

When using wireless accessories or smartphones, both will stream directly to Marvel CI. When the signal from a wireless accessory or smartphone is present, the CROS signal will pause. When the signal from the wireless accessory or smartphone has stopped, the CROS signal will resume.

FITTING GUIDE

PROGRAMMING PHONAK CROS P-13

- Connect hearing instruments.
 - Open Target CI v1.5 or later.
 - Select the orange **Connect** button at the top of the screen.
 - Assign sides for each hearing instrument, select **Continue**.
NOTE: Target CI will identify if a firmware update is required. Follow steps to perform update as indicated in Target CI.
- Proceed with programming.
- Complete the programming session.
 - Select **Save & Close** at the top right corner of the screen.
NOTE: During the saving process, CROS cannot be unchecked.
NOTE: The wireless connection between CROS transmitter and Marvel CI starts automatically once both instruments are disconnected from the software and turned on.



OPTIONAL CROS PROGRAMMING CONSIDERATIONS

- Select Acoustic Parameters in the Instruments tab to choose an earpiece, as needed.
- Choose Program Options within the Fitting tab to adjust or confirm CROS microphone mode, as needed.
- Adjust CROS Balance within the Fitting tab, as needed, per the directions below.

CROS BALANCE

- Select **CROS Balance**.
NOTE: Adjustment to CROS balance is applied across all programs.
- Confirm CROS has been unmuted at the top of the dashboard.
NOTE: When CROS is initially unmuted, a notification to enable Binaural VoiceStream Technology™ will appear.
- Adjust the loudness balance between CROS and Marvel CI sound processor by manipulating the up and down arrow keys beneath the hearing instruments.
NOTE: A change to one hearing instrument will result in a change to both sides simultaneously.



REMOTE PROGRAMMING CONSIDERATIONS FOR CROS

PROGRAMMING PHONAK CROS P-13

- Open Target CI and select **Start Remote Support**.
NOTE: During Remote Programming, CROS is not connected but remains active throughout the session. A new CROS instrument cannot be added during a Remote Programming session.
- Connect Marvel CI sound processor.
- Proceed with programming.
NOTE: All adjustments made to CROS programming during a Remote Programming session will save to the Marvel CI sound processor.
- Select **Save and Close** before ending the remote session.

If you require more information about programming CROS, please contact your local AB support.

Target CI is designed for easier, faster, and smarter fitting. Target CI is the first hearing care software to allow the fitting of a sound processor and compatible hearing aid at the same time in one fitting software. It provides a streamlined workflow for an efficient bimodal fitting experience.

COMPATIBILITY

- The Naída Link M hearing aid is compatible with the Naída CI M90 sound processor.
- The Sky Link M hearing aid is compatible with the Sky CI M90 sound processor.

FITTING HARDWARE

Marvel CI sound processors and hearing aids can be programmed in the Target CI fitting software, using the Noahlink Wireless.

FITTING GUIDE

Open Target CI and follow the steps below to navigate the fitting of both Marvel devices in one session. Work through the tabs from left to right to complete the required fitting steps.

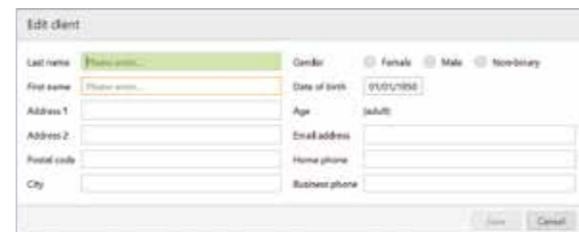
1. CREATE THE CLIENT FILE

For a New client:

- Select *New client*. Enter the client details¹ and *Save*.
- Select *New session* to open a new fitting session.

For an Existing client:

- Search and select the client's file; then, select *Open Session?*



2. CONNECT TO THE HEARING INSTRUMENTS

- Connect to both hearing instruments via Noahlink Wireless or Remote Programming.
- When programming wirelessly, ensure that fully charged batteries are used for both devices. Remove and re-attach the battery to put the devices into pairing mode. Click the *Connect* button within the 3-minute pairing window.
- Verify the sides for which each device is intended to be used.
- Once the device connections are successful, *Close* to proceed.



3. CONNECT TO THE INTERNAL DEVICE

- Place the headpiece on the recipient's head to achieve lock with the implant.
- For a new client, create a new implant record by clicking on the implant icon and follow the prompts to add a new implant.
- Add the required implant information; then, select *Save*.

4. MEASURE IMPEDANCES AND NEURAL RESPONSE IMAGING (NRI)

- Under *Client* access the *Impedance* tab to run impedances and conditioning.
- Access the *NRI* tab to measure NRI, if desired.



5. ENTER THE AUDIOGRAM

- Access the *Audiogram* tab to enter the client's latest audiogram³. Select the transducer type used.
- Optional: AudiogramDirect allows the measurement of an audiogram via the hearing aid and acoustic coupling. To access it, click *AudiogramDirect* > *Start* and follow the prompts.

6. SELECT THE APPROPRIATE ATTACHMENTS

- Under the *Instruments* tab, access the *Acoustic Parameters*, select the *Attachment* for the sound processor.
- For the hearing aid, select the appropriate earpiece option.



7. PERFORM THE FEEDBACK AND REAL EAR TEST

- Under the *Fitting* tab, access *Feedback & real ear test*.
- Instruct the patient to remain quiet for the duration of the measurement.
- Select *Start* to run the feedback management test.

8. PERFORM GLOBAL TUNING AND SELECT FITTING FORMULA

- Access the *Global tuning* tab to confirm the fitting formula and to view acoustic gain⁴.
- Consider using the *Adaptive Phonak Digital Bimodal fitting formula*, as appropriate.

9. CREATE A MAP AND VERIFY SOUND QUALITY OF THE SOUND PROCESSOR

- Under *Fitting*, access the *Mapping* tab to set the appropriate map parameters (i.e. stimulation strategy, pulse width, etc.).
- Select the *Stimulation mode* type to measure M-Levels. T-Levels will default to 10% of the set M-Levels.
- To start and stop stimulation, click the play button, or the "unmute" and "mute" control in the dashboard, or press the S-key and spacebar on the keyboard.
- Verify comfort using *Live Speech stimulation*.
- If desired, create progressively louder levels under *Global device options*.
- If desired, create additional Maps under *Mapping*.



10. FINE TUNE THE HEARING AID SETTINGS

- Access the *Fine tuning* tab. Then, select the *Gain & MPO* tab to manage acoustic settings for the hearing aid.

11. FINE TUNE BOTH DEVICES IN PROGRAM OPTIONS

- Access the *Program options* tab to fine tune individual programs further, if desired⁵.
- Microphone mode and comfort features can be adjusted for each individual program, if desired.
- Add any *Additional programs* [+], if needed, based on the client's unique listening needs.



12. MANAGE DEVICE OPTIONS

- Access the *Device options* tab to manage Manual controls, Bluetooth®, Signals & alerts, Indicator light, Startup and Datalogging, as needed, based on each recipient's unique preferences.
- For ease of discovering the device during Bluetooth pairing, access the *Bluetooth* tab and label each side with the recipient's name.
- Consider assigning the Bluetooth Side to the side with better hearing and/or longer battery life.



13. SAVE & CLOSE THE SESSION

- Select *Save & close* to finalize the fitting session.
- Run and review the sound processor *Battery estimation*, if desired.
- Add any notes to the fitting session, if desired.
- Follow the prompts to *Save* the fitting session to the Hearing instruments and/or the Database.
- Select *Close* to complete the fitting session.

If further support or information regarding product availability is required, please contact your local AB representative.

1. Always enter the client's Date of birth so that the appropriate default settings can be applied.
2. Open session should be used at all follow-up visits to allow access to past impedance and NRI data.
3. If using Noah, enter client details and audiogram in Noah, prior to accessing Target CI.

4. The gain level and compression settings are based on the user's experience.
5. By default, the settings are applied to both the CI and HA; however, settings for each device can be customized by unlinking the devices.

The M Acoustic Earhook coupled with the Marvel CI sound processor is designed for CI candidates and recipients who have aidable low frequency hearing in the implanted ear. This solution provides acoustic amplification of the low frequencies via hearing aid technology, in combination with electrical stimulation of the high frequencies in the same ear via cochlear implant technology. M Acoustic Earhook takes advantage of natural acoustic hearing to provide the benefits of combined stimulation to recipients with unilateral or bilateral Marvel CI(s).

COMPATIBILITY

The M Acoustic Earhook is compatible with the Naída™ CI M90 and Sky CI™ M90 sound processors.

COMPONENTS

- | | |
|-----------------------|--|
| 1. M Acoustic Earhook | 6. Back microphone |
| 2. Receiver | 7. Multi-function button with status LED |
| 3. Sound processor | 8. CeruShield™ Disk |
| 4. M Battery | 9. Pin removal tool |
| 5. Front microphone | 10. Connector pin |



EARPIECE OPTIONS



Custom SlimTip¹

Custom fit recommended for moderate or greater hearing loss for better retention, comfort and protection of the receiver.



Power dome

Suitable for moderate hearing loss. Offers a tighter fit than the Vented dome.



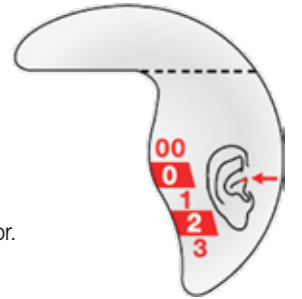
Vented dome

Suitable for mild-to-moderate hearing loss. Beneficial if occlusion is a concern.

ASSEMBLING THE M ACOUSTIC EARHOOK

Follow the steps below to setup the device appropriately:

- The M Acoustic Earhook is [available in 5 different lengths](#) (00, 0, 1, 2, 3) for either the left or right ear.
- The [Measurement Tool](#) helps to determine the appropriate length of the Acoustic Earhook to accommodate different ear shapes and sizes.
- The [Pin Removal Tool](#) is used for attaching the M Acoustic Earhook to and from the sound processor.
- Confirm that a [Cerushield wax filter](#) is inside the receiver. The receiver ships with a wax filter already inserted.
- Select a [suitable earpiece option](#) to attach to the receiver of the M Acoustic Earhook. Ensure a comfortable fit and seal in the ear canal for good retention. When mounting the earpiece on to the receiver, there is a tactile click upon attachment.



Measurement Tool

CARE AND MAINTENANCE

Earwax Protection

- The M Acoustic Earhook is equipped with a CeruShield wax filter to protect the receiver from earwax damage.
- Check the earwax protection regularly and exchange it if it looks dirty or if sound quality is reduced.
- The CeruShield earwax filter should be replaced at least every four to eight weeks.



CeruShield Disk

General Care

- When not in use, store the sound processor and M Acoustic Earhook in the equipment case provided.
- Ensure the M Acoustic Earhook is not placed within proximity of the headpiece magnet, as the magnet may damage the receiver.
- Visually inspect the device daily for earwax and moisture deposits in the M Acoustic Earhook.
- Wipe the earpiece daily with a dry tissue.
- If a dome is used, it should be replaced every three months, or when it becomes brittle.
- To clean the M Acoustic Earhook:
 - Remove the dome from the receiver.
 - Using a lint-free cloth or moist cleansing wipe, gently clean the dome and receiver unit. Never use cleaning agents such as household detergents.
 - Prior to reattaching the dome to the receiver, ensure that all parts are completely dry.

FOR MORE INFORMATION

Refer to the M Acoustic Earhook Instruction For Use. If further support is required, please contact your local AB representative. They will provide information regarding regulatory approval and product availability in your region.

¹. Ordered from Phonak. Availability varies by region.

The M Acoustic Earhook allows recipients to take advantage of any usable acoustic hearing in the implanted ear.

FITTING HARDWARE

Marvel CI sound processors with M Acoustic Earhook are programmed in the Target CI fitting software, using either the Noahlink Wireless or CPI-3 programming interface.

FITTING GUIDE

Open Target CI and follow the steps below to navigate fitting of Naida™ CI M90 or Sky CI™ M90 sound processors with the M Acoustic Earhook. Work through the tabs from left to right to complete the required fitting steps.

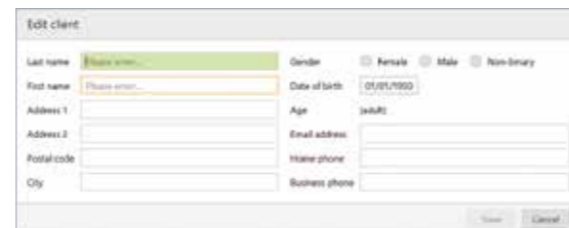
1. CREATE THE CLIENT FILE

For a New client:

- Select *New client*. Enter the client's details¹ and *Save*.
- Select *New session* to open a new fitting session.

For an Existing client:

- Search and select the client's file; then, select *Open Session*².



2. CONNECT TO THE HEARING INSTRUMENTS

- Connect to the hearing instrument(s) via Noahlink Wireless, CPI-3, or Remote Programming.
- When programming wirelessly, ensure that a fully charged rechargeable battery is used. Remove and reattach the battery to put the sound processor into pairing mode. Click the *Connect* button within the 3-minute pairing window.
- Verify the sides for which each device is intended to be used.
- Once the device connection is successful, *Close* to proceed.



3. CONNECT TO THE INTERNAL DEVICE

- Place the headpiece on the recipient's head to achieve lock with the implant.
- For a new client, create a new implant record by clicking on the implant icon and follow the prompts to add a new implant.
- Add the required implant information; then, select *Save*.



4. MEASURE IMPEDANCES AND NEURAL RESPONSE IMAGING (NRI)

- Under *Client*, access the *Impedance* tab to run impedances and conditioning.
- Access the *NRI* tab to measure NRI, if desired.

5. ENTER THE RECIPIENT'S LATEST AUDIOGRAM

- Access the *Audiogram* tab to enter the client's latest audiogram³. Select the transducer type used.
- AudiogramDirect allows the measurement of an audiogram via the M Acoustic Earhook. To access it, click *AudiogramDirect* > *Start* and follow the prompts.

6. SELECT THE APPROPRIATE ATTACHMENTS

- Under the *Instruments* tab, access the *Acoustic Parameters*, select *Acoustic Earhook*, the appropriate earpiece, dome size, and wire length.
- For optimal fitting, *SlimTip* is recommended (order from Phonak).



7. PERFORM THE FEEDBACK AND REAL EAR TEST

- Under the *Fitting* tab, access *Feedback & real ear test*.
- Instruct the patient to remain quiet for the duration of the measurement.
- Select *Start* to run the feedback management test.

8. PERFORM GLOBAL TUNING AND SELECT FITTING FORMULA

- Access the *Global tuning* tab to confirm the fitting formula and to view acoustic gain.
- Consider using the *Adaptive Phonak Digital Bimodal fitting formula*, as appropriate.



9. CREATE A MAP FOR THE ELECTRIC MODE

- Under *Fitting*, access the *Mapping* tab, set the appropriate electric parameters (i.e. stimulation strategy, pulse width, etc.).
- Select the *Stimulation mode* type to measure M-Levels. T-Levels will default to 10% of the set M-Levels.



If electrodes are extra-cochlear:

- Disable electrodes which are suspected to be located outside the cochlea.
- Disable the first electrode located inside the cochlea (e.g. if electrodes 15 and 16 are outside the cochlea, disable electrodes 14 -16 in the map).
- Check M-Level on remaining active electrodes using tone burst stimulation. If the recipient reports sound as uncomfortably loud or unpleasant (e.g. tinny, shrill), reduce M-Level to a comfortable level⁴.

10. SET ACOUSTIC AND ELECTRIC CUTOFF FREQUENCIES

- Select the *Acoustic* tab to access acoustic and electric cutoffs.
- The electric cutoff will default to the point at which recipient's unaided threshold exceeds 70 dB HL. The acoustic cutoff will default to the point at which the unaided threshold exceeds 90 dB HL.

11. VERIFY SOUND QUALITY AND COMFORT

- Click the dropdown next to the *Mute/Unmute* icon, to stimulate *Electric only*, *Acoustic only*, or *Electric + Acoustic* together.
- Verify sound quality and comfort using live speech stimulation.



12. FINE TUNING

- Access *Fine tuning* to confirm settings, as desired.
- Access the *Gain & MPO* tab to set acoustic gains and maximum acoustic earhook output.

13. MANAGE DEVICE OPTIONS

- Access the *Device options* tab to set controls and alerts according to the recipient's preference.
- For ease of discovering the device during Bluetooth® pairing, access the *Bluetooth* tab and label each side with the recipient's name.

14. SAVE & CLOSE THE SESSION

- Select *Save & close* to complete the fitting session.
- Run and review the sound processor *Battery estimation*, if desired.
- Add any notes to the fitting session, if desired.
- Follow the prompts to *Save* the fitting session to the Hearing instruments and the Database.
- Select *Close* to complete the fitting session.

FOR MORE INFORMATION

If further support or information regarding product availability is required, please contact your local AB representative.

1. Always enter the client's Date of birth so that the appropriate default settings can be applied.
2. Open session should be used at all follow-up visits to allow access to past impedance and NRI data.
3. If using Noah, enter the client's details and audiogram in Noah, prior to accessing Target CI.

4. Additional electrodes should be disabled if any of the following are noted with individual electrode stimulation: non-auditory percept, abnormal or absent loudness growth, or atonal or abnormal stimulus sound quality.

Marvel CI sound processors (Naída CI M90, Naída CI M30 and Sky CI M90) are designed to help you stay connected with your family and friends, by providing a powerful hearing experience in any listening situation. This guide provides the basic information needed to help build confidence with your new device.

WHAT IS AUTOSENSE OS?

AutoSense OS™ 3.0 operating system is a sophisticated, **easy to use automatic program** in the Marvel CI sound processors and Phonak Link M hearing aids. It automatically senses your surroundings and adapts to provide optimum clarity and comfort in the different listening situations, without requiring manual program changes.

TIPS FOR SUCCESS



STARTUP PROGRAM

When your device is powered on, you will hear a melody¹ as the device goes into the automatic startup program.



AUTOMATICALLY ADAPTS TO CHANGING ENVIRONMENTS

The device will seamlessly adapt to your surroundings and adjust automatically from quiet, to noise and while streaming music or media.



BE PATIENT

It may take a few days or weeks to get used to the new sound quality, just like with all new technologies. Allow the brain time to adapt to the new sound. Try out the following listening exercises to build your confidence.



ALWAYS FACE THE PERSON YOU WISH TO HEAR

When in noisy environments, the directional microphones will activate. It is designed to focus to the front, while making sounds from the back and sides to be perceived as softer. Hence, it is important to always face the person you wish to hear, especially in group conversations.



AB REMOTE APP

You can adjust the volume on the device or the AB Remote app, if desired. You can customize the balance of the streamed signal versus the environmental sounds also.



WIRELESS SOLUTIONS

If you are still struggling to hear in noise, consider using a wireless solution like Roger devices to improve hearing in challenging listening situations like meetings and restaurants.

EXPERIENCE THE BENEFIT

Try the following activities with a family member or friend to help you adjust to the sound quality.

Listening Activity	Rate your experience and add a comment regarding the experience 1 = Poor ; 2 = Fair ; 3 = Good ; 4 = Very Good ; 5 = Excellent
Conversation with one person in a quiet situation. E.g. in the clinic or at home. Observe the speakers voice and the sounds around you.	1 2 3 4 5
Group conversation in a quiet situation. Always face the person you wish to hear.	1 2 3 4 5
Conversation with one person in a noisy restaurant. When in noise, the directional microphones will activate. It is designed to focus to the front, while making sounds from the back and sides to be perceived as softer. Always face the person you wish to hear.	1 2 3 4 5
Group conversation in a noisy situation. When in noise, the directional microphones will activate and focus to the front while reducing background noise. Always face the person you wish to hear in the group.	1 2 3 4 5
Go for a walk outdoors. Observe the environmental sounds around you like birds, traffic, etc.	1 2 3 4 5
Conversation in the car. Listen to the driver or other passengers.	1 2 3 4 5
Listen to music via speaker and/or Bluetooth® streaming. Start with your favorite songs, and follow the lyrics.	1 2 3 4 5
Listen to a podcast via Bluetooth streaming. Find an interesting podcast or audio book to stream directly to your device using Bluetooth.	1 2 3 4 5

We want you to get the most out of your Marvel CI device and enjoy a powerful hearing experience in any listening situation. If you are still struggling to adapt to the new sound quality after a few weeks, please inform your audiologist. You may require additional programming. You can rate the listening activities in the table above and take it along to the clinic, so the hearing care professional is informed about your experiences in the various listening situations.

For more information, please visit AdvancedBionics.com/MarvelCI

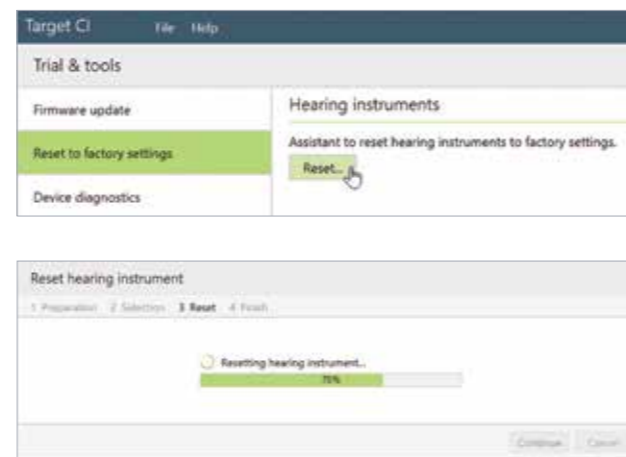
1. The startup melody will only be audible if enabled in the fitting software by the hearing care professional.

This guide provides the hearing care professional with the steps to program a replacement Marvel CI sound processor or hearing aid in Target CI.

RESET TO FACTORY SETTINGS IF USING A LOANER MARVEL DEVICE

If using a Marvel device that was previously programmed for a different recipient, it is advisable to reset to factory settings first. This step will clear all patient and program information previously stored on the device. Reset one hearing instrument at a time. If you are using a new hearing instrument, you can skip this step.

- Open Target CI and select *Trial & tools*.
- Select *Reset to factory settings > Reset* under Hearing instruments.
- Select the preferred programming interface – *Noahlink Wireless* or *CPI-3*.
- Turn the hearing instrument off and on again (i.e. remove and re-attach the battery to the device). Click *Continue*.
- **Note:** Any data previously saved on the device will be lost. However, selecting *Reset to factory settings* will not remove any previous Roger license installations.
- Select the detected hearing instrument, click *Continue*.
- The reset may take several minutes. Be patient and do not disconnect the device or close the software. The progress bar is a visual indicator to monitor progress. Click *Continue*.
- Once the Hearing instrument is successfully reset, click *Close*. The device has now been reset to factory settings.



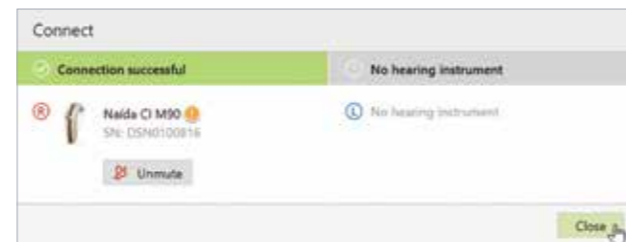
PROGRAMMING THE REPLACEMENT MARVEL DEVICE

OPEN TARGET CI AND SELECT THE CLIENT FILE

- Open the most recent fitting session.
- **Note:** If the *Apply Junior mode* message pops up when programming a replacement Sky CI M, select *Keep current mapping parameters and match "Junior mode" defaults* to maintain the recipient's current map parameters.

CONNECT TO THE HEARING INSTRUMENT

- Connect to the hearing instrument via Noahlink Wireless, CPI-3, or Remote Programming.
- When programming wirelessly, ensure that a fully charged rechargeable battery is used. Remove and re-attach the battery to put the sound processor into pairing mode. Select the *Connect* button within the 3-minute pairing window.
- Verify the side for which the device is intended to be used.
- Once device connection is successful, *Close* to proceed.



SAVE AND CLOSE THE SESSION

- Select *Save & close* to finalize the fitting session.
- Add any notes to the fitting session, if desired.
- *Save* the fitting session to the Hearing instruments and/or the Database.
- Select *Close* to complete the fitting session.



PROGRAMMING A BACK-UP MARVEL CI SOUND PROCESSOR DURING IN-PERSON CLINIC VISIT

Follow the steps below to program a back-up Marvel CI sound processor.

- Program the primary Marvel CI sound processor; then, *Save & close* session.
- Open the session that was just created with the primary Marvel CI.
- Put the back-up Marvel CI into pairing mode by attaching a fully charged rechargeable battery to this back-up device.
- Connect to the hearing instrument via Noahlink Wireless, CPI-3, or Remote Programming.
- Verify the side for which the device is intended to be programmed.
- A *Connection warning* notification will pop-up indicating that the connected device has a different serial number than the device in this session (see below for more details). Select *Continue* to proceed.
- Be sure to select *Use fitting from session*; then, follow the prompts to proceed.
- Once device connection is successful, select *Close* to proceed
- Select *Save & close session* to save the same settings and programs to the back-up Marvel CI sound processor and database.



Target CI Connection Warning Notification

If the serial number of the device connected to the session does not match the serial number of the device stored in the session, the datalog report in Target CI will not be available.

- In the case of programming the back-up Marvel CI device, the hearing care professional can ignore this message and proceed with the fitting session to program the back-up device.
- This notification will also be displayed at return visits when a Marvel CI device that has a different serial number than the one used in the previous fitting session is connected. In this case, there are two resolutions:
 - a. Disconnect the device and connect the device with matching serial number to session, if available.
 - b. Instead of starting by opening the existing session, rather start a new session and choose to read settings from the hearing instrument.
- **Note:** The most recent impedance data, but no historical impedance or NRI data, will be available when starting a new session.

IF THE REPLACEMENT MARVEL CI DEVICE IS A DIFFERENT TYPE

If programming a replacement Marvel CI sound processor that is different from the original device type issued to the recipient (e.g. programming Naída CI M90 to replace the Sky CI M90, or vice versa), use the *Transfer fitting* function within Target CI.

- Open Target CI, select the client whose device is to be programmed from the client list.
- Select *Open session* to open the client's most recent fitting session.
- Connect to the device via Noahlink Wireless or CPI-3.
- Go to the *Fitting* menu. Select *Transfer fitting > Import fitting*.
- The transfer fitting assistant transfers fitting data between different hearing instrument types. Select *Continue* to proceed.
- Import the fitting session that should be loaded onto the replacement processor. Select the fitting session from the list; then, select *Continue* to proceed.
- Confirm transferable programs and settings; select *Continue* to proceed.
- Select *Close* to complete the transfer fitting process.



If further support is required, please contact your local AB representative.

This guide provides the hearing care professional with the steps to import and export the client file from Target CI.

HOW TO IMPORT THE CLIENT FILE INTO TARGET CI

If a Marvel CI user transfers from one clinic to another, the hearing care professional can obtain and import the client's Target CI file into their own Target CI database. The imported file will provide the client's full fitting history.

- Go to *File > Import clients*.
- Click *Browse*, select the file you wish to import; then, click *Import Client*.
- If the client file was anonymized, it will appear in Target CI as an anonymized number. For example: *Anonymized19600101*. The client name may be edited after the anonymized file is imported into Target CI.

Note: If the Target CI client file is not available to import when seeing a transfer client, then the current device settings can still be accessed by connecting to the patient's hearing instrument and selecting *Use fitting from hearing instrument*.

HOW TO EXPORT A CLIENT FILE FROM TARGET CI

If a Marvel CI user transfers from one clinic to another, the hearing care professional can export the client's Target CI file and send it to the new clinic. It is recommended that client data be exported from within Target CI, rather than Noah, in order to maintain data privacy.

- Select the *Client file* to be exported. Do not open the client file.
- Go to *File > Export client*.
- Select the preferred export client file option:
 - Export current client (default) to only export the individual client file.
 - Export all clients if you want to move all clients to another installation (and don't want to use a database back-up). This option only appears in stand-alone mode.
 - Export to Noah to make this file a .nha file, in order to import into Noah. It can be used together with the above *Export all* option if you wish to move the stand-alone patients to Noah.
 - Export anonymously (default) will remove the client's name from the file and replace it with an anonymized number. Consider whether the person receiving the file will need the name within the file or not.
- Click *Browse* to select the *Destination file* location to be saved; then, click *Export*.
- Once the export is complete, simply open the folder to locate the file to be sent.

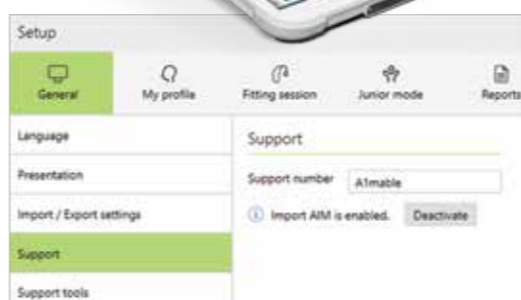
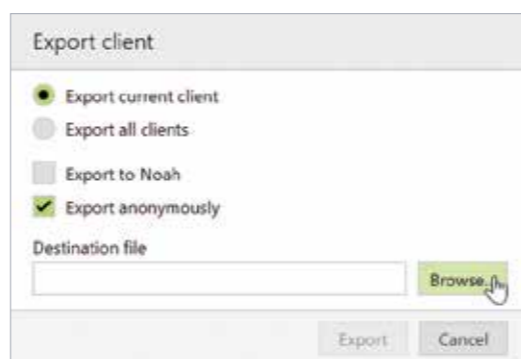
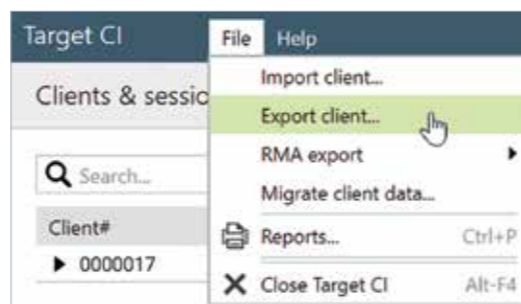
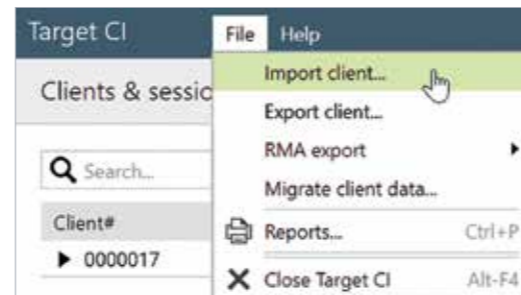
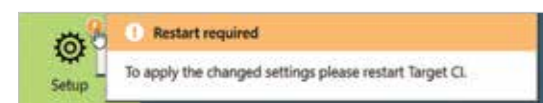
Note: Consider creating a shortcut from the desktop to the *C:\ProgramData\Advanced Bionics\Target CI\Target CI\RMAExports* file for easy file location in future.

HOW TO IMPORT A CLIENT FILE FROM THE AIM SYSTEM

Data from the AIM™ System can be imported into Target CI v1.5 or later. Data that can be imported from AIM includes IntelliLink ID, Implant type, Electrode type, Impedance measurements, and NRI measurements.


Enable the AIM system data transfer feature in Target CI by conducting the following steps:

- Open Target CI; then, select *Setup > Support*.
- Type *A1miable* into the *Support number* text box to enable AIM imports.
- Restart Target CI to apply the change.



To import a file from AIM

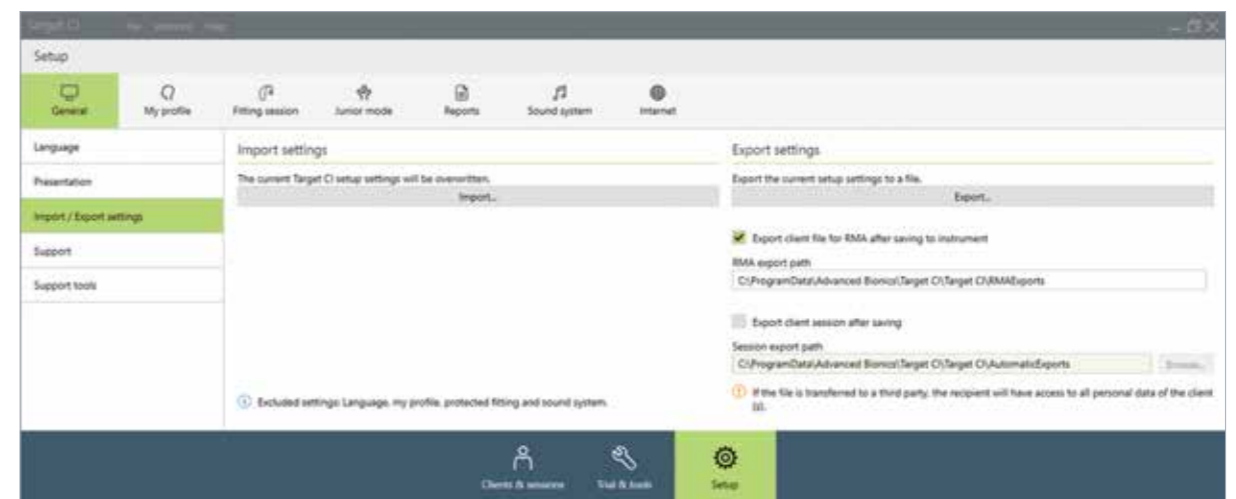
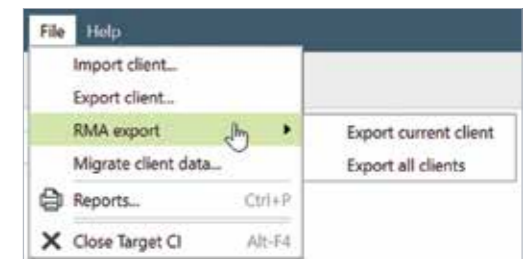
- Open Target CI.
- Access the client file in one of the following ways:
 - If the recipient is in the Target CI database, select the client file; then, select *Open session*.
 - If the recipient is not in the Target CI database, create the client file; then, select *New session*.
- Select *Fitting > Import AIM*.
- Select *Browse*; then, select the .json file to be imported from the saved location.
- Select *Import*.

Measurements imported from AIM are identified with this symbol: 

FOR REGIONS WITH AB EXPRESS AND AB PRO PORTAL RMA SERVICES

AB Express and the AB Pro Portal allow health care professionals to send fitting information to AB to support repairs and exchanges. These services may not be available in all regions. Check with your local AB representative.

- Select the *Client file* to be exported. Do not open the client file.
- Go to *File > RMA export*.
- Select the appropriate export option and follow the prompts:
 - Export current client (default) to only export the individual client file when using the Processor Direct Service.
 - Export all clients if you want to export all clients.
- The files are exported to the file path in *Setup* (Note: this file path is fixed).
- To access the RMA export file, go to *Setup*; then, under *General* select *Import/Export settings*.
- In *Setup*, the checkbox indicates that a file is exported automatically after saving to the hearing instrument.
- Once in the RMAExports folder, the hearing care professional can either upload the selected client file manually to AB (in Europe this may be called **AB4You**, in North America it is called **Processor Direct**) or the AB Express will automatically pull the file from this RMAExports folder.



- This data export is fully encrypted and saved to the following location: **C:\ProgramData\Advanced Bionics\Target CI\Target CI\RMAExports**
 - No identifying information will be available in the file name, so it will be important to retrieve the file immediately after exporting it.
 - Important: Although the file can be renamed as long as the .rma extension is preserved, renaming the file may breach cybersecurity compliance of anonymizing patient data.
- For AB Express users, all files in the RMAExports folder will be automatically sent to AB. You will be able to select the latest programming file while completing an RMA on the ProPortal. For AB ProPortal users, you can start your RMA on the ProPortal and upload the RMA export file directly on the web during the RMA process.

Remote Programming¹, available in Target CI, is designed to support the care of Marvel CI recipients by providing complete programming sessions with greater convenience. For follow-up appointments, a programming session can be conducted in real time in the recipient's own environment, rather than traveling to the clinic.

This guide provides information on how to successfully conduct a follow-up programming session using Remote Programming in Target CI for all AB recipients with Marvel CI, including bimodal recipients.



REMOTE PROGRAMMING REQUIREMENTS

Remote Programming is available for follow-up programming sessions for all Marvel CI recipients, including those with Link M, M Acoustic Earhook, and CROS. To activate Remote Programming, the programming computer must be connected to the internet and the hearing instrument(s) must be connected to Target CI v1.5 or later in the clinic. The recipient must pair to their hearing instrument(s) in the AB Remote Support app.

Additional requirements include:

- Computer with an integrated webcam or microphone, or an external webcam and microphone connected to the computer.
NOTE: For better sound quality, use headphones with a microphone connection for the Remote Programming session.
- Stable internet connection (Wi-Fi, LAN or 4G) with at least 5 Mbit/s of data transfer connection for uploads and downloads. Internet connection can be checked within Target CI.

REMOTE PROGRAMMING STEPS

OPEN TARGET CI V1.5 OR LATER

SELECT THE CLIENT FILE AND CHOOSE START REMOTE SUPPORT

- Confirm the programming computer is connected to the internet.
- The hearing care professional (HCP) can select *Start Remote Support* to begin the Remote Programming session.
NOTE: *Start Remote Support* is available after the recipient pairs to their phone and the recipient joins the programming session in the AB Remote Support app. *Paired to phone* will display in Target CI after the recipient's hearing instruments have been paired to their phone and will remain visible for subsequent programming sessions.



SELECT THE DESIRED VISIT HISTORY AND CHOOSE *OPEN SESSION* TO BEGIN PROGRAMMING

- The Remote Support window will appear on the left side of the Target CI screen.




- Conduct the Remote Programming. The same cochlear implant programming steps that can be performed during in-person programming sessions are available during the Remote Programming session.

SELECT *SAVE AND CLOSE* TO COMPLETE PROGRAMMING

NOTE: Target CI will not allow the hearing care professional to close the Remote Support video call before saving and closing the session.

END THE REMOTE PROGRAMMING SESSION

- Selecting  will end the video call for the hearing care professional and the recipient.
- Close the Remote Support video window to end the Remote Programming session in Target CI.

PRO TIPS

During the in-person fitting session, assist the recipient with downloading the AB Remote Support app and pairing their hearing instrument(s). Going through these simple steps prepares the recipient for future remote programming sessions.

During a Remote Programming session:

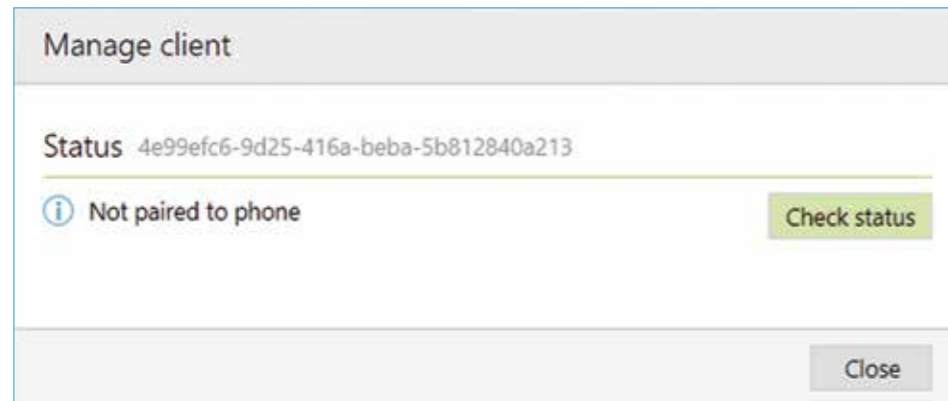
- When a recipient joins the Remote Programming session, ensure good visibility in the Remote Support video window for the hearing care provider and the recipient. Adjust camera angle or body position as needed.
- Ensure audio quality is adequate. Adjust the microphone or volume settings, if needed.
- To ensure good visibility within Target CI during Remote Programming, undock the Remote Support window (option found in menu in top left of the Remote Support window) and move to another location on the screen, if needed.
- Encourage recipients to set their phone to *Do not disturb* prior to the remote programming session.
- Encourage recipients to remain in the AB Remote Support app for the entire programming session and communicate with their HCP if they must navigate away from the app (e.g., changing phone settings) to minimize disruptions during programming and prevent ending the session prematurely.
- Notify the recipient when sound will be muted (e.g., when connecting, saving, etc.) so they do not think the wireless connection has been lost.
- Provide access to a loudness scaling chart for the recipients to utilize during the remote programming session.

¹ For adults and children aged 13 years and older

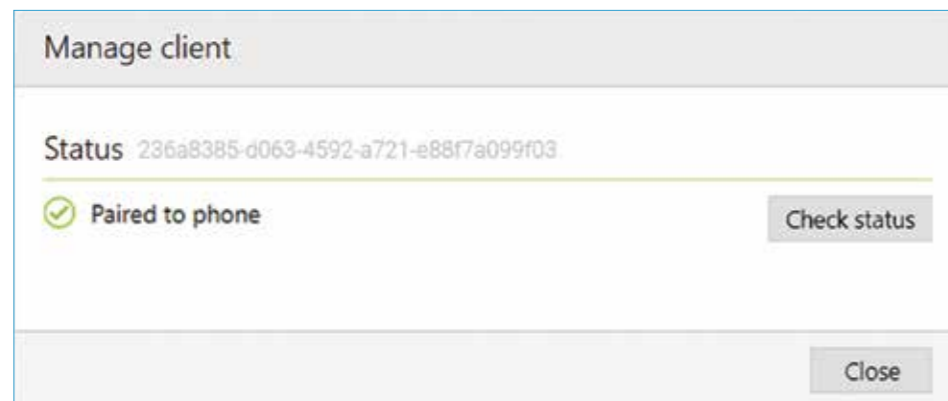
TROUBLESHOOTING

Not paired to the phone displayed in Target CI after the recipient has paired to the AB Remote Support app and initiated a Remote Programming session by selecting *Join waiting room*.

- Select *Manage client* and then select *Check status*.



- Select *Close* after pairing has been recognized in Target CI.



If sound quality is poor, try the following:

- Adjust the microphone and/or volume settings
- End the call and establish a new video connection

If video quality is poor, check that:

- There is a high quality internet connection
- Computer manufacturer updates have been installed

Recipient loses connection during the programming session.

The Remote Programming session is still open for the hearing care professional. To reconnect, the recipient needs to:

- Reopen the AB Remote Support app.
- Join the Remote Programming session.
- Resume participation in the Remote Programming session.

No Remote Support ID available is displayed under eSolutions in Target CI

Remote Programming is not available because the initial fitting in Target CI v1.5 or later has not been saved or because the client file was imported from Target CI v1.0 and the recipient has not been programmed in Target CI v1.5 or later. To enable Remote Programming, the recipient needs to be programmed in-person in Target CI v1.5 or later, on a programming computer that is connected to the internet.

Supporting the Recipient with Connection or Pairing Issues in the AB Remote Support app

- Ensure Bluetooth® is enabled and that all pairing requests are accepted when pairing devices within the AB Remote Support app.
- Forget Bluetooth® pairings on the phone/tablet and in the AB Remote Support app for devices no longer in use (e.g., sound processors that have been replaced).
- Ensure that the hearing instrument battery is fully engaged and adequately charged.
- Forget Bluetooth® pairing on the phone/tablet for the current instrument(s) and re-pair instrument(s) to the AB Remote Support app.

– This will require re-pairing device with phone for Bluetooth® streaming function and potentially connection with other apps in use on phone (e.g., AB Remote app).

NOTE: If the wireless network connection status is poor, encourage recipient to see whether a better connection may be established (e.g., move to another location, turn off video camera or power down/remove possible interfering devices).

- If the recipient is using more than one set of hearing instruments with the AB Remote Mobile app, the recipient may need to switch between devices. The recipient can go to *Settings > Manage Devices* to see which hearing instrument is paired. If the incorrect hearing instrument is paired, the recipient can go to *Settings > Pair hearing devices* to connect to a different hearing instrument.

If you require more information about Remote Programming in Target CI, please contact your local AB support.



The AB Remote Support app¹ allows you to virtually meet with your hearing care professional in a video appointment and to conveniently program your Marvel devices. First, contact your clinic to arrange a virtual appointment. Then, follow the simple steps below to prepare for the remote session.

STEP 1: DOWNLOAD THE AB REMOTE SUPPORT APP

- From the app store, download the AB Remote Support app.
Note: The AB Remote Support app is compatible with Apple iOS 14 and Android OS 6 or higher.

STEP 2: PAIR MARVEL DEVICE(S) TO AB REMOTE SUPPORT APP

- Turn on Bluetooth® on your phone.
- Open the AB Remote Support app, and tap *Let's Get Started*.
- Remove and reattach the battery for each hearing device to enable Bluetooth pairing mode. Then, tap *Continue* in the AB Remote Support app.
- Select the device(s) found in the app; then, select *Done*.
Note: Navigate to *Settings > Pair new devices*; then follow the above instructions to pair any back-up devices.
Note: The CROS device does not pair to the Remote Support app for Remote Programming.
- Once pairing is complete, you are ready for the Remote Programming session.




STEP 3: PARTICIPATE IN THE REMOTE PROGRAMMING SESSION

- When joining the remote session at the pre-determined appointment time, select the *Appointment* icon, then select *Continue > Join waiting room*.
NOTE: The first time you join, the AB Remote Support app will prompt you to allow access to your phone's camera and microphone. Select *OK*, when prompted; then allow access to your camera in the phone settings.
- When your hearing care professional joins, select *Join* to start the session.
- You and your hearing care professional will be able to see each other through the video. You will hear your hearing care professional through the phone speaker.
- Participate in the remote session to program and adjust your device settings, just as you would in an in-person programming session.
NOTE: When loudness measurements are conducted, you will not hear sounds in the environment. Use the AB Loudness Rating Chart to provide feedback about the loudness levels.
- Select *Done* after your hearing care professional ends the session.



REMOTE PROGRAMMING FOR BACK-UP DEVICES

Complete the following steps after your hearing care professional indicates that it is time to program your back-up processor.

- Select  to end the video call.
- Select *Leave* appointment; then, select *Done*.
- Select the < at the top of the screen.
- Select *Devices* at the bottom of the screen.
- Remove the battery from the primary processor and place the battery on the back-up processor.
- Select the blue *Change* button beneath the processor(s).
NOTE: All devices must be paired in order to see the blue *Change* button. See Step 2 above.
- From the menu, select the back-up device.
- Select *Save*; then, rejoin the appointment by navigating to the Appointment tab and selecting *Continue*.
- Follow the steps in the AB Remote Support app to rejoin the Remote Programming session.
- The hearing care professional may proceed with programming at this time.



Considerations for a successful remote programming session

- Choose a quiet room to reduce distractions and background noise.
- Ensure that your cell phone connection is stable. Wi-Fi is recommended.
- Use a fully-charged battery for your hearing device(s).
- Charge your cell phone before the appointment.
- Turn on the *Do Not Disturb* function on your phone prior to the appointment. Accepting an incoming call or clicking on a notification will put the virtual appointment on hold.
- For Troubleshooting Tips, select *See device instructions* in the app.

Scan the QR code to watch a short video on the AB Remote Support app. If you require more information about the AB Remote Support app, please contact your hearing care professional or local AB support.



DOWNLOAD THE AB REMOTE SUPPORT APP

The AB Remote Support app is available for free for both iOS and Android devices.



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Marvel CI provides numerous ways for recipients to stream audio from their favorite devices and connect with the ones they love. With Marvel CI, recipients can stream using Bluetooth®, Roger™, and AirStream technologies. This clinical resource is designed to identify which streaming options are available for the recipient based on which hearing instrument the recipient is using with Marvel CI.



NAÍDA CI M90 on one side

	BLUETOOTH	ROGER	AIRSTREAM	
RECOMMENDED ON OTHER SIDE	Naída CI M90	Bilateral/Bimodal streaming via integrated Bluetooth	Bilateral/Bimodal streaming with Phonak TV Connector and Phonak PartnerMic	
	Phonak Naída Link M	Bilateral/Bimodal streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into each device via Roger iN microphone or via Roger X + Roger installer	Bilateral/Bimodal streaming with Phonak TV Connector and Phonak PartnerMic	
OTHER HEARING INSTRUMENTS	Sky CI M90	Unilateral streaming to the selected hearing instrument via integrated Bluetooth	Bilateral/Bimodal streaming with Phonak TV Connector. Unilateral streaming to the paired hearing instrument with Phonak PartnerMic	
	Phonak Paradise or Phonak Marvel HI	Unilateral streaming to the selected hearing instrument via integrated Bluetooth	Bilateral/Bimodal streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into each device via Roger iN microphone or via Roger X + Roger installer	
	Naída CI Q90	Unilateral streaming to Naída CI M90 via integrated Bluetooth OR to Naída CI Q90 via Naída CI Connect, Roger 17 ² , or Phonak ComPilot	Bilateral streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into Naída CI M90 via Roger iN microphone or via Roger X + Roger installer and Roger 17 for Naída CI Q90	Bilateral streaming with Phonak TV Connector when Naída CI Connect is attached to Naída CI Q90. Unilateral streaming to Naída CI M90 with Phonak PartnerMic
	Phonak Naída Link Q	Unilateral streaming to Naída CI M90 via integrated Bluetooth OR to Phonak Naída Link Q via Roger 10 (Link UP) ² , Roger 15 (Link RIC) ² or Phonak ComPilot	Bilateral streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into Naída CI M90 via Roger iN microphone or via Roger X + Roger installer and Roger 10 (Link UP), Roger 15 (Link RIC) attached to Naída Link Q	Unilateral streaming to Naída CI M90 via Phonak TV Connector and Phonak PartnerMic
	Chorus	Unilateral streaming to Naída CI M90 via integrated Bluetooth OR to Chorus via integrated Roger ²	Bilateral streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into Naída CI M90 via Roger iN microphone or via Roger X + Roger Installer. Roger 02 is integrated into Chorus.	Unilateral streaming to Naída CI M90 via Phonak TV Connector and Phonak PartnerMic



SKY CI M90 on one side

	BLUETOOTH	ROGER	AIRSTREAM	
RECOMMENDED ON OTHER SIDE	Sky CI M90	Bilateral/Bimodal streaming via integrated Bluetooth	Bilateral/Bimodal streaming with Phonak TV Connector and Phonak PartnerMic	
	Phonak Sky Link M	Bilateral/Bimodal streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into each device via Roger iN microphone or via Roger X + Roger installer	Bilateral/Bimodal streaming with Phonak TV Connector and Phonak PartnerMic	
OTHER HEARING INSTRUMENTS	Naída CI M90	Unilateral streaming to the selected hearing instrument via integrated Bluetooth	Bilateral/Bimodal streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into each device via Roger iN microphone or via Roger X + Roger installer	
	Phonak Paradise or Phonak Marvel HI	Unilateral streaming to the selected hearing instrument via integrated Bluetooth	Bilateral/Bimodal streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into each device via Roger iN microphone or via Roger X + Roger installer	
	Naída CI Q90	Unilateral streaming to Sky CI M90 via integrated Bluetooth OR To Naída CI Q90 via Naída CI Connect, Roger 17 ² , or Phonak ComPilot	Bilateral streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into Sky CI M90 via Roger iN microphone or via Roger X + Roger installer and Roger 17 for Naída CI Q90	Bilateral streaming with Phonak TV Connector when Naída CI Connect is attached to Naída CI Q90. Unilateral streaming to Sky CI M90 with Phonak PartnerMic
	Phonak Naída Link Q	Unilateral streaming to Sky CI M90 via integrated Bluetooth OR To Phonak Naída Link Q via Roger 10 (Link UP) ² , Roger 15 (Link RIC) ² or Phonak ComPilot	Bilateral streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into Sky CI M90 via Roger iN microphone or via Roger X + Roger installer and Roger 10 (Link UP), or Roger 15 (Link RIC) attached to Naída Link Q	Unilateral streaming to Sky CI M90 via Phonak TV Connector and Phonak PartnerMic
	Chorus	Unilateral streaming to Sky CI M90 via integrated Bluetooth OR To Chorus via integrated Roger ²	Bilateral streaming (Roger mic input only) ¹ Microphones: any Roger iN or Roger microphone ¹ Receivers: Roger installed into Sky CI M90. Roger 02 is integrated into Chorus.	Unilateral streaming to Sky CI M90 via Phonak TV Connector and Phonak PartnerMic

1. Bluetooth on Roger microphone should be disabled because Phonak Marvel and Phonak Paradise technologies have integrated Bluetooth.
2. Requires a Roger microphone with Bluetooth

1. Bluetooth on Roger microphone should be disabled because Phonak Marvel and Phonak Paradise technologies have integrated Bluetooth.
2. Requires a Roger microphone with Bluetooth

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