ADVANCED BIONICS
POWERFUL CONNECTIONS

Slim HP, Slim HP Mic, Slim HP AquaMic™, Slim HP Color Caps

CI-5320, CI-5322, CI-5321, CI-7131, CI-7132

instructions for use

SYMBOLS TABLE

Labeling symbols and their meanings

⚒	Date of Manufacture
⬛	Manufacturer
REF	Model number
LOT	LOT number
UDI	Unique Device Identifier
🧍	Type of Protection: BF
🌡	Suitable temperature range for transport and storage

	See Instructions for Use
	Fragile
	Do not get wet
	Suitable relative humidity range for transport and storage
	Caution (refer to "Cautions & Warnings" section for further information)
	Dispose of in accordance with applicable national and local regulations
	MR Unsafe
IPxx	Ingress Protection Rating

Limitations and Contraindications

There are no known limitations or contraindications for the Slim HPs.

Precautions, Cautions, and Warnings

- *This device should be used only by the individual for whom it is prescribed.*

- *Do not remove or replace the Slim HP cable from the sound processor or waterproof wearing solution while underwater. If the cable becomes accidently detached during water use, remove the headpiece and sound processor from the water and dry both devices prior to re-connecting the cable to the sound processor.*

- *CHOKING HAZARD: Contains small parts that pose a hazard of inhalation, choking, or ingestion. If any parts are swallowed or inhaled, consult a physician or hospital immediately.*

- *Do not leave children unattended with or allow children to play with the Slim HPs or Slim HP Magnets.*

- *Do not allow children to place the Slim HPs or Slim HP Magnets in the mouth.*

- *The large Slim HP Color Cap is for use by recipients older than 3 years of age, as this color cap and the Slim HP magnet may become displaced upon dropping.*

- *Due to increased risk of strangulation, do not use cables longer than 81cm (32") with young children.*

- *Remove your sound processor and consult your cochlear implant professional if uncomfortable sounds are heard or in case of discomfort, pain or skin irritation.*

- *Be sure to choose a cable length that does not require looping or bundling of the cable due to excess length.*

- *The headpiece must only be used by the intended person and not by others.*

- *Do not use a headpiece, magnet, or any associated part, that is broken, damaged, or cracked.*

- *The color cap must be attached when the headpiece is in use.*

- *Store spare magnets safely and away from cards that may have a magnetic strip (e.g. credit cards) and from other spare magnets or headpieces.*

- *High levels of static electricity may damage electronic components of your sound processor or implant. Care should be taken to avoid exposure of the system to static electricity.*

- *Use the lowest strength magnet required to ensure sufficient magnetic attraction of the headpiece.*

- *Contact your cochlear implant professional to adjust the magnet strength if the magnetic attraction of the headpiece is insufficient.*

- *If the headpiece magnet is too strong, pressure sores may develop at the headpiece site. If this happens, or if you experience any discomfort, irritation, pressure, or redness in this area, contact your cochlear implant professional.*

- *Although electromagnetic emissions of the Slim HPs have been confirmed within safe limits, some other devices could be sensitive to such emissions. If you notice other devices do not behave as expected when your Slim HPs are nearby, separate the devices.*

- *The magnetic field created by the headpiece magnet may alter the programming of magnetic shunts. Users of magnetic shunts should consider off-the-shelf retention methods.*

- *In the event that you experience any issues with your product, please contact your cochlear implant professional or the manufacturer. Do not attempt to service or modify the Slim HPs. Doing so may compromise system performance and will void the manufacturer's warranty. Products should be serviced only at Advanced Bionics and damaged products should be returned to Advanced Bionics.*

Undesirable Side Effects

Undesirable side effects of your Slim HPs may include skin irritation and discomfort from pressure on the ear or head, device overheating, or overly loud sounds.

Product Description

The Slim HP is a headpiece with an integrated cable designed for use with a sound processor worn on the ear. The Slim HP is available with cable lengths of 3.5 inches/9cm, 4.25 inches/11cm, and 5.5 inches/14cm.

Sound Processor Connector

Integrated Cable

Slim HP with Color Cap

The Slim HP Mic is a headpiece with an integrated 12 inch/30cm cable and a microphone designed for use with a sound processor worn off the ear (for example, in a clip).

Slim HP Mic with Color Cap

Microphone

Sound Processor Connector
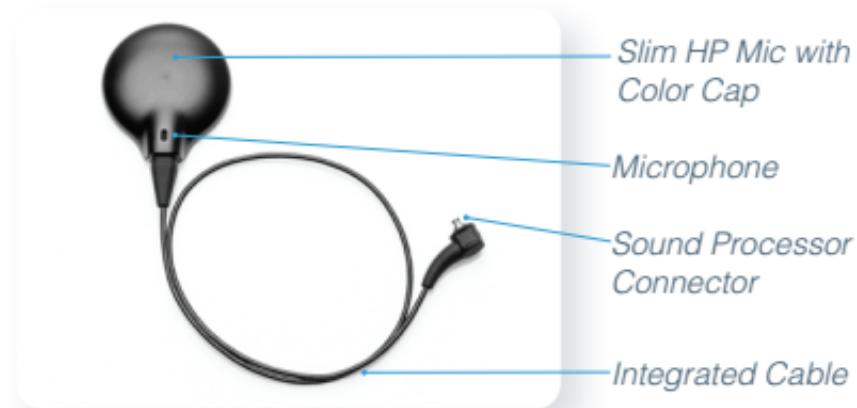
Integrated Cable

The Slim HP AquaMic™ headpiece is a waterproof headpiece with an integrated cable and a microphone designed for use with waterproof solutions (e.g., Neptune, AquaCase, or M Waterproof Battery). The Slim HP AquaMic is available with cable lengths of 12 inches/30cm, 18 inches/46cm, 24 inches/61cm, and 42 inches/107cm.

Slim HP AquaMic with Color Cap

Microphone

Cable Clip

Integrated Cable

Sound Processor Connector
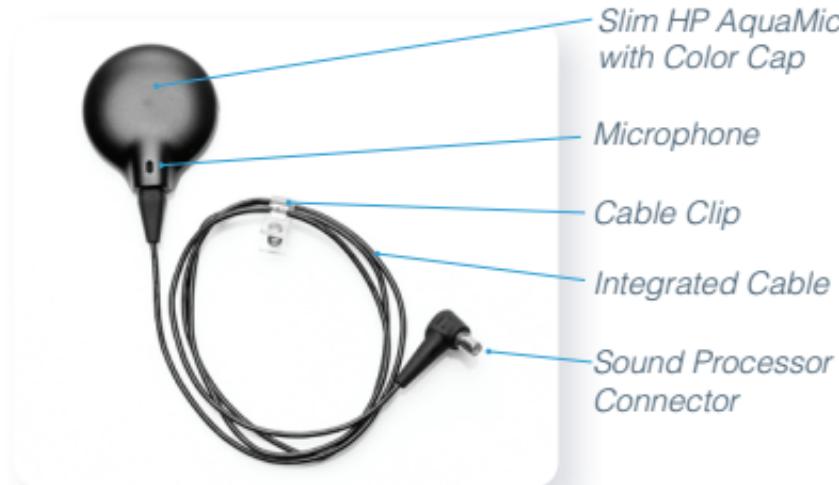
The Slim HPs are compatible with the following accessory products: Slim HP Magnets, Slim HP Color Caps, and the Slim HP Color Cap Removal Tool.

The Slim HPs contain a magnet well designed to accommodate the appropriate Slim HP magnet with appropriate strength to ensure retention between the cochlear implant and the headpiece. The Standard Magnets are for use by recipients of CII, HiRes 90k, HiRes 90k Advantage, and HiRes Ultra implants. The 3D Magnets are for use by recipients of HiRes Ultra 3D implants.

The Slim HP Color Cap snaps in place on top of the headpiece securely covering the magnet well and the microphone. There are two sizes of Slim HP Color Caps: Standard and Large. The Standard Color Cap is for use with the smallest Slim HP Magnets: Standard Magnet sizes 1 through 5 and 3D Magnet sizes 1 through 4. The Large Color Cap is for use with the largest Slim HP Magnets: Standard Magnet sizes 6 and 7 and 3D Magnet sizes 5, 6, and 7.

Intended Use

The Slim HPs are intended to transfer sound signals and power between your Advanced Bionics' cochlear implant and sound processor. A microphone embedded in the Slim HP Mic and Slim HP AquaMic, if enabled, allows the headpiece to also function as a sound input source.

The intended users of the Slim HPs are users of the Neptune, Naída™ CI Q, Naída™ CI M, or Sky CI™ M sound processors. The intended use environments of the Slim HPs are healthcare and daily living environments.

Compatibility

The Slim HPs are compatible with Neptune, Naída CI Q, Naída CI M, or Sky CI M sound processors from Advanced Bionics.

Operating Instructions

Assembly Instructions

To operate your headpiece with your cochlear implant system you will need to install a Slim HP Magnet and attach a Slim HP Color Cap, as follows:

1. Insert the Slim HP Magnet into the magnet well of the headpiece.

    a. For recipients using the Standard Magnet, no specific magnet orientation is required.

    b. For recipients using the 3D Magnet, the magnet should be inserted so that the arrow on the magnet points up when the headpiece is on the head.

2. Attach a color cap (See "Color Caps" section).

3. Attach the headpiece and cable to your sound processor (See "Cables" section).

4. Then place the bottom side of the headpiece over the internal magnet of your cochlear implant.

NOTE: For recipients of HiRes Ultra 3D implants, if the headpiece repels or pushes away when brought over the internal device, rotate the headpiece back and forth as you move the headpiece closer towards the implant. Once attraction is felt, adjust the headpiece to the original orientation and place on head.

NOTE: For recipients of HiRes Ultra 3D implants, when in a magnetic field or when the headpiece is removed, you may feel the internal components of the magnet vibrate and/or rotate. This movement is expected as the magnets are designed to rotate in the presence of strong magnetic fields. This movement may be noticeable and is not expected to be uncomfortable.

Cables

Slim HP, Slim HP Mic, and Slim HP AquaMic have cables that are integrated into the headpiece.

Attaching the Slim HP cable to the sound processor

To attach the Slim HP cable to the sound processor, hold the headpiece cable by the cable's strain relief. Align the connector on the cable with the connector on the sound processor and gently push the cable into the sound processor until it snaps into place.

Removing the Slim HP cable from the sound processor

Remove the battery from the processor before removing the cable from the processor. To remove the cable from the sound processor, always hold the cable's strain relief and gently pull it away.

NOTE: To maximize cable life, the cable should only be unplugged from the sound processor when changing wearing configuration or when replacing the cable.

Color Caps

Attaching the Slim HP Color Cap

Align the Color Cap over the Slim HP and snap it into place.

Removing the Slim HP Color Cap

The arrow on the underside of the Slim HPs indicates where the Slim HP Color Cap removal tool can be inserted to remove the Color Cap from the Slim HP. Insert the tool as indicated by the arrow to pop the Color Cap off of the Slim HP.

14

Magnets

It is important for your headpiece to have the correct magnet strength and orientation to avoid discomfort or retention issues. Contact your cochlear implant professional if there are any concerns regarding magnet retention. If deemed appropriate, your cochlear implant professional may replace the headpiece magnet with a stronger or weaker magnet or adjust magnet orientation. If needed, you may use off-the-shelf solutions to improve retention.

For use of Slim HP AquaMic in water:

If a swim cap, headband, or other device used in water environments is placed over the headpiece microphone, some degradation in sound quality may be perceived. If the headpiece is worn following submersion in water, sound quality may be affected. Dry the headpiece fully to restore typical system sound quality. It is recommended that you replace your headpiece after water use with a dry headpiece to ensure restoration of typical system sound quality.

CARE AND MAINTENANCE

Storing the Slim HPs

When not in use, store Slim HPs in the equipment case provided.

Cleaning and Maintenance

Periodically, clean your headpiece using a soft cloth. Do not use solvents. Replace the color cap every 90 days, or sooner, if a change in sound quality is noted. Following use of the Slim HP AquaMic in Water:

• Rinse Slim HP AquaMic with clean water.

• Remove the color cap.

- Wipe or blot the headpiece upper surface with a soft cloth.
- Place in an appropriate drying system to dry completely.

Unaided listeners may periodically assess headpiece sound quality using the listening check function. For instructions, consult your appropriate sound processor user guide.

Recommended Operating and Storage Temperature Ranges

CONDITION	MINIMUM	MAXIMUM
Operating Temperature	0˚C (32˚F)	45˚C (115˚F)
Storage Temperature	-20˚C (-13˚F)	55˚C (131˚F)
Relative Humidity	0%	95%

Ingress Protection (IP) Ratings

The following product configuration has an IP rating of 57 (protection against dust; protection against failure due to one-time immersion for 30 minutes to a depth up to 1 meter and after drying overnight in a drying system):

• **The Slim HP or Slim HP Mic and a Naída CI Q or Naída CI M sound processor.**

The following product configuration has an IP rating of 68 (complete protection against dust penetration; protection against failure due to continuous immersion in water up to 3 meters):

• **The Slim HP AquaMic with a Neptune sound processor, AquaCase, or M Waterproof Battery.**

DISPOSAL AND HAZARDOUS MATERIALS

Dispose of the Slim HPs in accordance with applicable national and local regulations. Hazardous materials: not applicable to this product.

AVAILABLE PRODUCT OPTIONS AND MODEL NUMBERS

Slim HP

PRODUCT OPTION	MODEL NUMBER
Beige 3.5" Cable	CI-5320-001
Beige 4.25" Cable	CI-5320-006
Beige 5.5" Cable	CI-5320-011
Black 3.5" Cable	CI-5320-002
Black 4.25" Cable	CI-5320-007
Black 5.5" Cable	CI-5320-012
White 3.5" Cable	CI-5320-005
White 4.25" Cable	CI-5320-010
Gray 3.5" Cable	CI-5320-004
Gray 4.25" Cable	CI-5320-009

Product Option	Model Number
Brown 3.5" Cable	CI-5320-003
Brown 4.25" Cable	CI-5320-008

Slim HP Mic

Product Option	Model Number
Black 12" Cable	CI-5322-001

Slim HP AquaMic

Product Option	Model Number
Beige 12" Cable	CI-5321-001
Beige 18" Cable	CI-5321-005

Product Option	Model Number
Beige 24" Cable	CI-5321-009
Beige 42" Cable	CI-5321-013
Black 12" Cable	CI-5321-002
Black 18" Cable	CI-5321-006
Black 24" Cable	CI-5321-010
Black 42" Cable	CI-5321-014
Gray 12" Cable	CI-5321-004
Gray 18" Cable	CI-5321-008
Gray 24" Cable	CI-5321-012
Gray 42" Cable	CI-5321-016
Brown 12" Cable	CI-5321-003
Brown 18" Cable	CI-5321-007

Product Option	Model Number
Brown 24" Cable	CI-5321-011
Brown 42" Cable	CI-5321-015

Slim HP Color Caps

Product Option	Model Number
Standard Sand Beige	CI-7131-004
Standard Chestnut	CI-7131-005
Standard Silver Grey	CI-7131-006
Standard Velvet Black	CI-7131-007
Standard Alpine White	CI-7131-010
Standard Lava Red	CI-7131-001

PRODUCT OPTION	MODEL NUMBER
Standard Blue Ocean	CI-7131-002
Standard Majesty Purple	CI-7131-003
Standard Caribbean Pirate	CI-7131-008
Standard Precious Pink	CI-7131-009
Standard Resin Black	CI-7131-011
Large Sand Beige	CI-7132-001
Large Chestnut	CI-7132-002
Large Silver Grey	CI-7132-003
Large Velvet Black	CI-7132-004
Large Resin Black	CI-7132-005
Color Cap Removal Tool	CI-7526

CLINICAL BENEFITS

The Slim HPs provide no clinical benefit; these products are intended to be used with the Neptune, Naída CI Q, Naída CI M, and Sky CI M sound processors.

www.advancedbionics.com/clinicalandsafetyperformance/

Users of the Slim HPs in the European Union should report any serious incident to their local competent authority.

This instrument is certified under:

• **IC: 25853-ABBTE2**

This device complies with RSS-210 and RSS-216 of Industry Canada. Operation is subject to the following two conditions:

1. **This device may not cause harmful interference, and**

2. **This device must accept any interference received, including interference that may cause undesired operation.**

Changes or modifications made to this equipment not expressly approved by Advanced Bionics may void the ISED authorization to operate this equipment. This Class B digital apparatus complies with Canadian ICES-003.

Advanced Bionics AG
Laubisrütistrasse 28
8712 Stäfa, Switzerland
+41 58 928 78 00

Manufactured by:
Advanced Bionics LLC
California, U.S.A.
+1 661 362 1400

AdvancedBionics.com

029-M807-02