



ADVANCED  
BIONICS

POWERFUL CONNECTIONS



# Naída CI M90

SOUND PROCESSOR DATA SHEET

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## SOUND PROCESSOR DATA SHEET

### MECHANICAL PROPERTIES

Measurements	Size H x W x D in Millimeters
Processor Only	27.5 x 29.2 x 9.2
With M Battery Small	50.1 x 29.2 x 9.2
With M Battery Medium	56.8 x 29.2 x 9.2
With M Battery Large	65.2 x 31 x 9.2
With M Battery Standard	55.3 x 29.2 x 9.2
With M Waterproof Battery	46.7 x 50.5 x 22.3
With M Zn-Air Battery Pak	54.6 x 29.2 x 9.2
Weight	In Grams
Processor Only	4.6
With M Battery Small	9.2
With M Battery Medium	11
With M Battery Large	13
With M Battery Standard	10
With M Zn-Air Battery Pak (with 2 batteries)	11
With M Waterproof Battery	34
M Wearing Clip	10.9
<b>Multi-function Button</b>	Button for control of programs, volume, and wireless streaming options.
<b>Processor Status LED</b>	Indicators for battery status, program number, flight mode status, microphone status, and error status.
<b>Processor Internal Alarm</b>	Alerts for low battery, program and volume changes, and wireless connectivity status.
<b>M Waterproof Battery Audible Alarm</b>	Audible alarm when headpiece is unlocked to warn caregivers of unlock status.
<b>Programmable T-Coil</b>	Allows access to phones and loop systems.

<b>Operating Temperature</b>	0°C to 45°C
<b>Storage Temperature</b>	-20°C to 55°C
<b>Humidity Range</b>	0% to 95%
Ingress Protection Rating	Product Configuration
IP 22	The Naída CI M90 sound processor with the M Listening Check, an M Battery or M Zn-Air Battery Pak, a M T-Mic, M Earhook, or M Acoustic Earhook, and a headpiece.
IP 52	The Naída CI M90 sound processor inside the M Waterproof Battery with a non-waterproof headpiece.
IP 54	The Naída CI M90 sound processor with an M Battery or M Zn-Air Battery Pak, an M T-Mic or M Acoustic Earhook, and a Slim HP or Slim HP Mic. The Naída CI M90 sound processor with an M Zn-Air Battery Pak, an M Earhook, and a Slim HP or Slim HP Mic.
IP 57	The Naída CI M90 sound processor with an M Battery, an M Earhook, and a Slim HP or Slim HP Mic.
IP 68	The Naída CI M90 sound processor inside the M Waterproof Battery with a waterproof headpiece and cable.

### PROCESSING SPECIFICATIONS

<b>Internal Memory</b>	1 automatic program and up to 4 additional programs
<b>Input Dynamic Range</b>	20 dB to 80 dB programmable
<b>Audio Bandwidth</b>	10 kHz
<b>Volume Control</b>	± 20% range for electric ± 10 dB range for acoustic
<b>Stimulation Rate</b>	82,492 pps
<b>Spectral Bands</b>	Up to 120 bands (software limited)
<b>Supported Strategies</b>	HiRes Optima-S, HiRes Optima-P, HiRes-S with Fidelity 120, HiRes-P with Fidelity 120, HiRes-S, HiRes-P
<b>Battery Life Estimation</b>	At fitting time, Target CI software will calculate and display the battery life estimation by program for each battery option based on patient specifics

## AVAILABLE PROGRAMS

<b>AutoSense OS 3.0</b>	Automatic program that optimizes settings for listening in any environment.
<b>Calm Situation</b>	Use for quiet environments and for speech understanding and listening comfort when in one-on-one conversations.
<b>Speech in Noise</b>	Use for speech understanding and comfort when in noisy environments and groups.
<b>Speech in Loud Noise</b>	Use for speech understanding when in noisy and crowded environments. The StereoZoom feature in the program allows a very specific focus on the sound source in front of the listener.
<b>Speech in Car</b>	Use for a stable listening environment in the car.
<b>Comfort in Noise</b>	Use for listening comfort in noisy situations when no speech is present.
<b>Comfort in Echo</b>	Use for comfortable speech understanding in environments that have a lot of echo/reverberation.
<b>Music</b>	Use for a more natural music experience.
<b>Media Speech + Mic</b>	Use for streaming speech via Bluetooth or accessories.
<b>Media Music + Mic</b>	Use for streaming music via Bluetooth or accessories.
<b>Speech in 360°</b>	Use for selecting the listening direction in situations where the sound source cannot be faced.
<b>Acoustic Phone</b>	Use for phone calls via M T-Mic or sound processor microphones.
<b>T-Coil + Mic</b>	Combines phone call input from telecoil and sound processor microphones.
<b>Off-Ear Program</b>	Use when the sound processor is configured for off-ear wearing using a headpiece microphone.
<b>Custom Program</b>	Use for customizing program settings.
<b>PartnerMic + Mic</b>	Combines input from Phonak PartnerMic and sound processor microphones.
<b>Phone Call + Mic</b>	Combines phone call input from streaming source and sound processor microphones.
<b>RogerDirect + Mic</b>	Combines Roger microphone source and sound processor microphones.

## WIRELESS CONNECTIVITY OPTIONS

<b>Bluetooth</b>	Direct connectivity via Bluetooth® 4.2 to Bluetooth-enabled devices (HFP and A2DP).*
<b>AirStream</b>	Direct connectivity to Phonak AirStream accessories including the TV Connector and PartnerMic.
<b>RogerDirect</b>	Direct connectivity to Phonak Roger transmitters.

\*Bluetooth® is a registered trademark owned by the Bluetooth SIG, Inc.

## COMPATIBILITY

<b>Implant</b>	HiRes Ultra 3D, HiRes Ultra, HiRes 90K Advantage, HiRes 90K, CII Bionic Ear
<b>Headpieces</b>	Slim HP, Slim HP Mic, Slim HP AquaMic

## HEADPIECE SPECIFICATIONS

<b>Slim HP</b>	No microphone, integrated cable (3.5"/9cm, 4.25"/11cm, 5.5"/14cm; beige, brown, black, grey, white)
<b>Slim HP Mic</b>	With microphone, integrated cable (12"/30cm; black)
<b>Slim HP AquaMic</b>	With waterproof microphone, integrated cable (12"/30cm, 18"/46cm, 24"/61cm, 42"/107cm; beige, brown, black, grey)
<b>Slim HP Color Caps</b>	Alpine White, Velvet Black, Sand Beige, Chestnut Brown, Silver Grey, Resin Black.
<b>Slim HP Magnets</b>	Standard and 3D, strengths 1 through 7.

## MICROPHONE SPECIFICATIONS

<b>Microphones</b>	Processor dual microphone (front and back), M T-Mic microphone, headpiece microphone.
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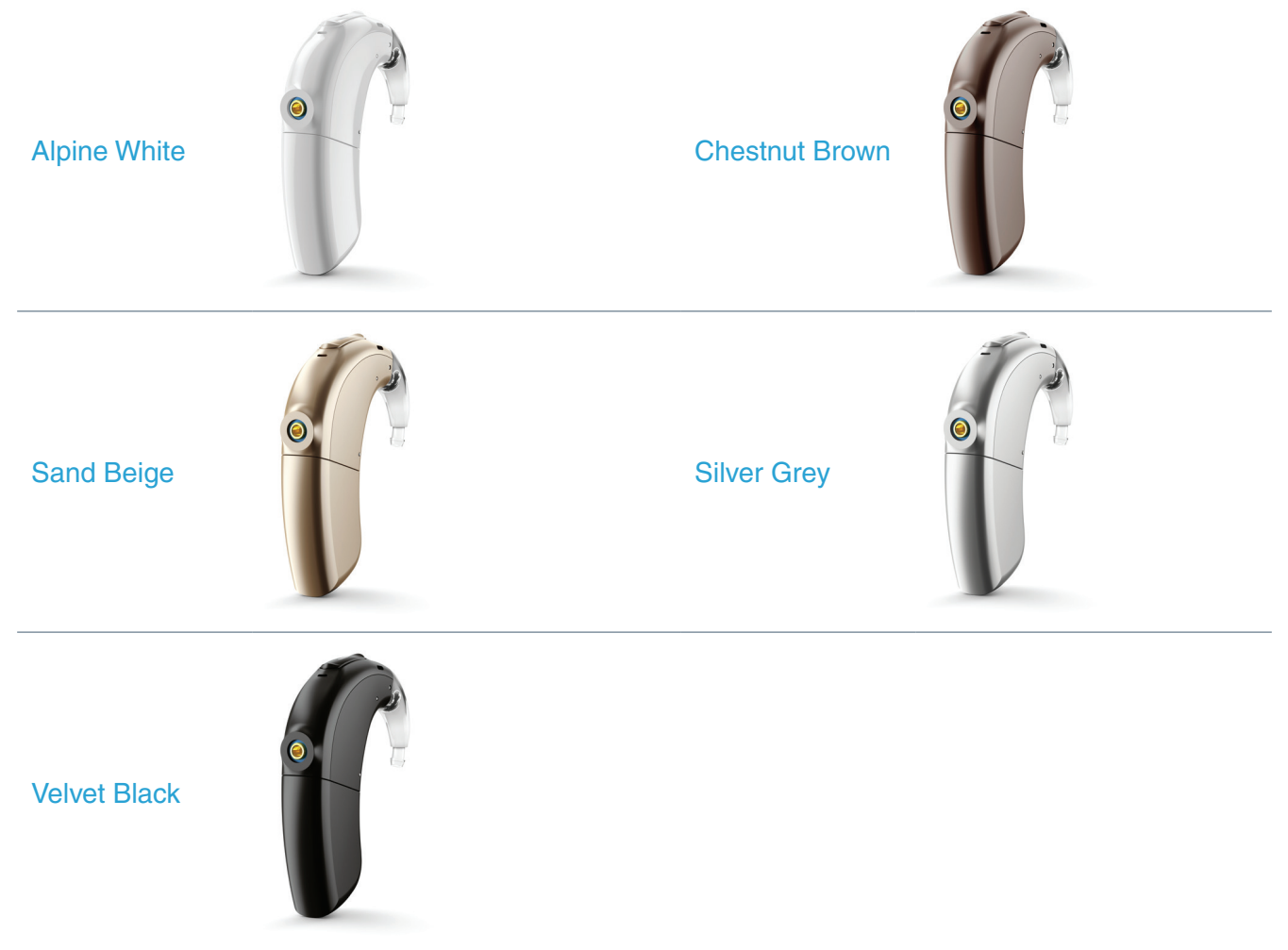
## POWER SPECIFICATIONS

Battery Options	Capacity (mAh)	Typical Expected Battery Life with HiRes™ Optima Processing Strategy (h)
M Battery Small	90	≥ 9
M Battery Medium	150	≥ 16
M Battery Large	220	≥ 16 (with other HiRes strategies)
M Battery Standard	160	≥ 16
M Waterproof Battery	225	≥ 18
M Zn-Air Battery Pak	N/A	≥ 16
<b>M Battery Charger</b>	Charger for three M Batteries with LED indicators USB or DC Powered.	

## ACCESSORIES SPECIFICATIONS

<b>Earhooks</b>	<ul style="list-style-type: none"> <li>• M Earhook (2 sizes, with and without retention)</li> <li>• M T-Mic (3 sizes)</li> <li>• M Acoustic Earhook (5 sizes, right and left)</li> </ul>
<b>Wearing Options</b>	<ul style="list-style-type: none"> <li>• M Wearing Clip</li> <li>• M Snuggie</li> <li>• M Retention Cuff</li> <li>• M Waterproof Battery</li> </ul>
<b>Listening Check</b>	Portable diagnostic device for checking input sources.
<b>M Waterproof Battery</b>	IP 68-rated case with integrated battery for protection from water and dust.
<b>AB Remote Mobile Application</b>	Mobile application for program and volume adjustment and device check functions.
<b>Phonak RemoteControl</b>	Remote control for adjustment of program and volume.
<b>Phonak TV Connector</b>	Accessory for streaming of TV audio to recipient's Naída CI sound processor and/or a compatible Phonak hearing aid.
<b>Phonak Partner Mic</b>	Accessory for streaming of speech to recipient's Naída CI sound processor and/or a compatible Phonak hearing aid.
<b>Phonak Roger transmitters</b>	Accessory for streaming speech to recipient's Naída CI sound processor and/or a compatible Phonak hearing aid.
<b>Phonak Naída Link M hearing instrument</b>	Phonak hearing instrument compatible with Naída CI M90, supporting Phonak Binaural processing features. Available in Sand Beige, Chestnut Brown, Silver Grey, Velvet Black.

## Naída CI M90 Color Options\*



\*Also available in Resin Beige.

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