Naída CI M90
SOUND PROCESSOR DATA SHEET

A Sonova brand

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MECHANICAL PROPERTIES

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

Operating Temperature	0°C to 45°C
Storage Temperature	-20°C to 55°C
Humidity Range	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

Internal Memory	1 automatic program and up to 4 additional programs
Input Dynamic Range	20 dB to 80 dB programmable
Audio Bandwidth	10 kHz
Volume Control	± 20% range for electric ± 10 dB range for acoustic
Stimulation Rate	82,492 pps
Spectral Bands	Up to 120 bands (software limited)
Supported Strategies	HiRes Optima-S, HiRes Optima-P, HiRes-S with Fidelity 120, HiRes-P with Fidelity 120, HiRes-S, HiRes-P
Battery Life Estimation	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

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

WIRELESS CONNECTIVITY OPTIONS

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

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COMPATIBILITY

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

HEADPIECE SPECIFICATIONS

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

MICROPHONE SPECIFICATIONS

Microphones	Processor dual microphone (front and back), M T-Mic microphone, headpiece microphone.

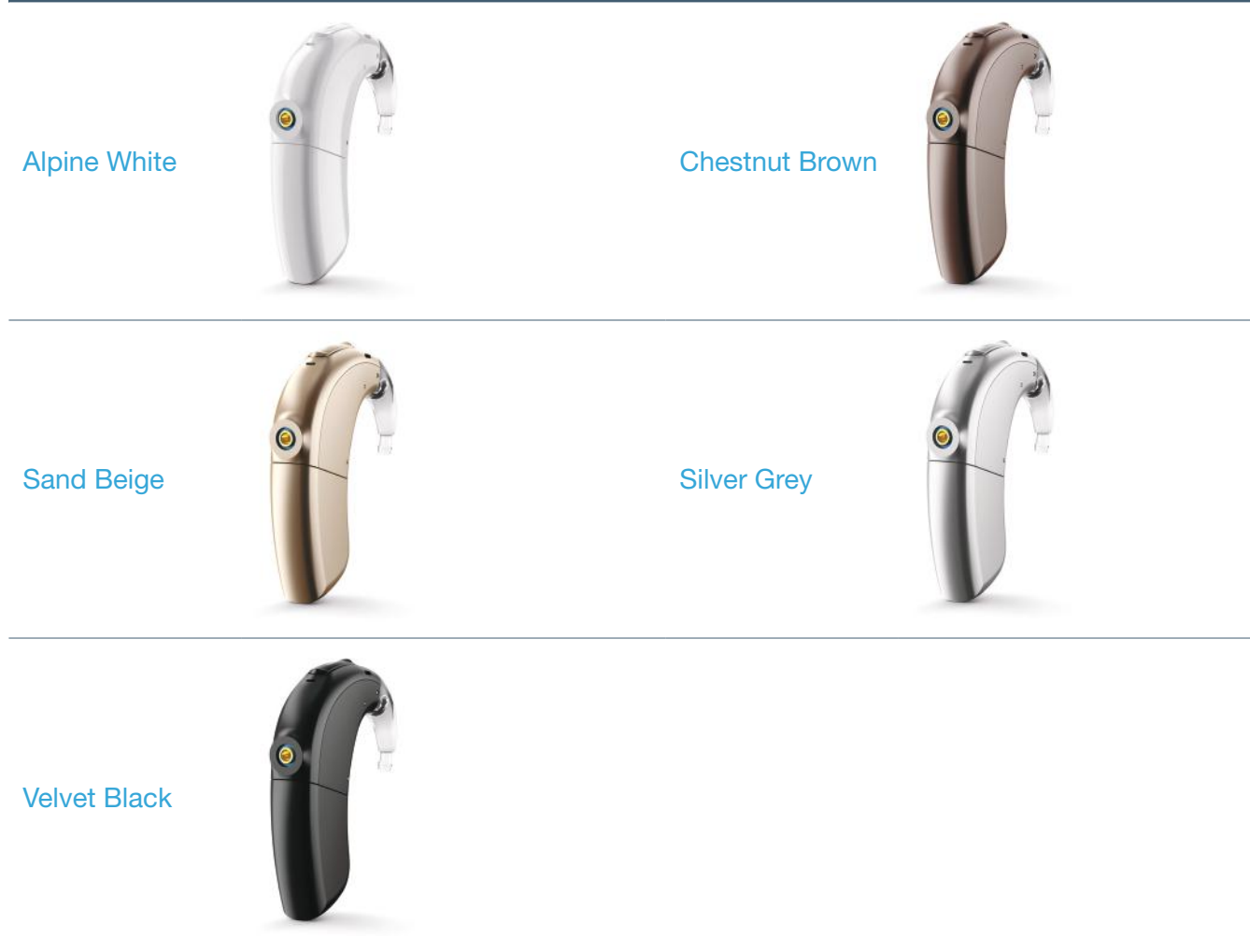## POWER SPECIFICATIONS

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

ACCESSORIES SPECIFICATIONS

Earhooks	• M Earhook (2 sizes, with and without retention) • M T-Mic (3 sizes) • M Acoustic Earhook (5 sizes, right and left)
Wearing Options	• M Wearing Clip • M Snuggie • M Retention Cuff • M Waterproof Battery
Listening Check	Portable diagnostic device for checking input sources.
M Waterproof Battery	IP 68-rated case with integrated battery for protection from water and dust.
AB Remote Mobile Application	Mobile application for program and volume adjustment and device check functions.
Phonak RemoteControl	Remote control for adjustment of program and volume.
Phonak TV Connector	Accessory for streaming of TV audio to recipient's Naída CI sound processor and/or a compatible Phonak hearing aid.
Phonak Partner Mic	Accessory for streaming of speech to recipient's Naída CI sound processor and/or a compatible Phonak hearing aid.
Phonak Roger transmitters	Accessory for streaming speech to recipient's Naída CI sound processor and/or a compatible Phonak hearing aid.
Phonak Naída Link M hearing instrument	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*

Alpine White

Chestnut Brown

Sand Beige

Silver Grey

Velvet Black

Also available in Resin Beige.

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