



ADVANCED  
BIONICS

POWERFUL CONNECTIONS



# Naída CI M90

SOUND PROCESSOR DATA SHEET

A Sonova brand

# Naída CI M90

## 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 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	<b>Product Configuration</b>
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

<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

**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	170	≥ 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\*

Alpine White



Chestnut Brown



Sand Beige



Silver Grey



Velvet Black



*\*Also available in Resin Beige.*

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