



ADVANCED  
BIONICS

POWERFUL CONNECTIONS



# Sky CI M90

## SOUND PROCESSOR DATA SHEET

A Sonova brand

# Sky 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 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

#### Multi-function 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 Sky 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 Sky CI M90 sound processor inside the M Waterproof Battery with a non-waterproof headpiece.
IP 54	The Sky 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 Sky 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 Sky CI M90 sound processor with an M Battery, an M Earhook, and a Slim HP or Slim HP Mic.
IP 68	The Sky 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 Sky OS	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

*\*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, head-piece microphone

## 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 Hi-Res strategies)
M Battery Standard	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

Earhooks	<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>
Wearing Options	<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>
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 Sky CI sound processor and/or a compatible Phonak hearing aid.
Phonak PartnerMic	Accessory for streaming of speech to recipient's Sky CI sound processor and/or a compatible Phonak hearing aid
Phonak Roger transmitters	Accessory for streaming speech to recipient's Sky CI sound processor and/or a compatible Phonak hearing aid.
Phonak Sky Link M hearing instrument	Phonak hearing instrument compatible with Sky CI M90, supporting Phonak Binaural processing features. Available in Sand Beige, Chestnut Brown, Velvet Black, Precious Pink, Blue Ocean, Caribbean Pirate.

## Sky CI M90 Color Options\*

Alpine  
White



Sand  
Beige



Chestnut  
Brown



Silver  
Grey



Velvet  
Black



Caribbean  
Pirate



Precious  
Pink



Blue  
Ocean



Majesty  
Purple



Lava  
Red



*\*Also available in Resin Beige.*

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