



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 programmes, volume, and wireless streaming options.
Processor Status LED	Indicators for battery status, programme number, flight mode status, microphone status, and error status.
Processor Internal Alarm	Alerts for low battery, programme 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 programme and up to 4 additional programmes
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 programme for each battery option based on patient specifics.

AVAILABLE PROGRAMMES

AutoSense Sky OS	Automatic programme that optimises 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 programme 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 Programme	Use when the sound processor is configured for off-ear wearing using a headpiece microphone.
Custom Programme	Use for customising programme 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 Colour 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	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	<ul style="list-style-type: none"> • M Earhook (2 sizes, with and without retention) • M T-Mic (3 sizes) • M Acoustic Earhook (5 sizes, right and left)
Wearing Options	<ul style="list-style-type: none"> • 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 programme and volume adjustment and device check functions.
Phonak RemoteControl	Remote control for adjustment of programme 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 Colour 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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