SORDIN

TECHNICAL DATA SHEET
August 2024

Sordin Supreme Pro-X Slim

Electronic hearing protector for hunting and shooting

Foldable headband









DESCRIPTION

Sordin Supreme Pro-X Slim is an electronic hearing protector designed specifically for hunting and shooting. It comes with an ARC-rail compatible mounting system, which enables an extra wide headband – suitable for larger head shapes. Digital audio technology is used to compress impulse noise to a secure level of 82 dB(A), while harmless surrounding sound is amplified and volume controlled using an external keypad on the right-hand cup.

Sordin Supreme Pro-X Slim is renowned for its extremely robust design and superior audio quality. The ambient sound is reproduced naturally and with high directional sensitivity. These capabilities help hunters not only to safely protect their hearing, but also improve their ability to detect even very faint sounds coming from game animals.

SordinHEAR2 HIGH END AUDIO REPRODUCTION

Ambient Sound

82 dB 82dB(A) Sound limit cut

ARC rail Compatible

AVAILABLE IN

- Ember
- Black
- Green

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KEY FEATURES

Extra wide headband	The ARC-rail compatible mounting system enables an extra wide headband, suitable for larger head shapes
Cup design	Slim design, suitable for both right- and left-handed shooters
Maximum 82 dB	Loud impulse noise automatically compressed to maximum 82 dB
Audio system	SordinHEAR2 offers excellent sound quality and four audio profiles – Hunting, Shooting, Focus and Comms
Ambient sound	Amplifying harmless ambient sound while protecting against harmful noise
Audio input	3.5-mm AUX input for connection of an external digital device such as a mobile phone or hunting radio
Audio quality	High audio quality, natural ambient sound reproduction
Warranty	5-year warranty (electronics only)
External keypad	Easy-to-use push buttons to operate the electronic functions
Waterproof microphones	The externally mounted microphones are water proof (IP 67 tested)
Auto power off	Automatic switch-off after 4 hours if no button has been pressed, saving battery time
Low battery warning	Low battery warning when approximately 40 hours is left of the battery time
Robust electronics	The electronic circuits are encapsulated in multiple layers of lacquer and polymer for increased robustness

MATERIALS

Headband	ABS and stainless spring steel
Headband padding	Balck leather
Cups	ABS
Inserts	Polyether foam
Sealing cushion	PVC foam *(TPU (Thermoplastic Polyurethane) foil covered, HTPB (Hydroxyl Terminated Polybutadiene) filling) (Gel rings are available as accessories)*

TECHNICAL INFORMATION

Batteries	2 x 1.5 V AAA/LR03, estimated operating time is around 400 hours
Level Dependent microphone frequency response	100 Hz – 10 KHz
Loudspeakers / loudspeaker response	2 x 32 Ohm / 20 Hz – 20 KHz
Operating conditions:	-20°C to +50°C
Max audio signal allowed from the connected radio to not exceed 82 dB(A) through the speakers	225 mVrms
Weight (excluding batteries)	289 gram (foam sealing rings), 348 gram (gel sealing rings)
Complies with following environmental directives	RoHS, WEEE

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EU TYPE EXAMINATION CERTIFICATE

Product Assessments: Supreme Pro-X slim headband

The product assessments were based on the following standards:

EN 352-1:2020, hearing protectors - ear-muffs
EN 352-4:2020, hearing protectors - level-dependent ear-muffs
EN 352-6:2020, hearing protectors - ear-muffs with safety related audio input
EN 352-1:2020 - Attenuation values PVC Cushions all models

CE
No. CE 708669

ATTENUATION DATA

Foam sealing rings

H	M	L	SNR	NRR
28 dB	24 dB	20 dB	**27 dB**	n/a

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	17.8	20.1	24.7	28.2	27.5	35.7	38.4
Standard Deviation, s_f (dB)	2.5	2.7	2.8	2.6	2.5	3.5	2.9
APV (M_f - s_f) (dB)	15.3	17.4	21.9	25.6	25.0	32.2	35.4

Gel sealing rings *(accessorie)*

H	M	L	SNR	NRR
30 dB	25 dB	19 dB	**27 dB**	n/a

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	17.1	18.7	25.6	29.7	29.3	39.2	41.9
Standard Deviation, s_f (dB)	2.9	2.8	2.8	2.9	2.4	3.6	3.8
APV (M_f - s_f) (dB)	14.2	15.9	22.9	26.9	26.9	35.5	38.1

Criterion Levels (dB)

Model	H	M	L
Headband version	112	105	94

Earmuff Sizes

Model	Approved sizes
Headband version	S, M, L

AUDIO PROFILES MODE DESCRIPTION

The Sordin excellent sound system – SordinHEAR2, is integrated in the latest Supreme models Pro-X and Pro-X LED (2023- editions). At its heart – four new audio profiles that further enhance your sound experience.

SordinHEAR2™
HIGH END AUDIO REPRODUCTION

Hunting

Hunting is the main audio profile for general purposes. The sound image is optimized for a normal hunting day, balancing clear ambient sound such as speech with comfortable low-noise audio.

Shooting

Shooting is a comfort profile with lower gain and a narrower audible frequency spectrum. Perfect when normal situational awareness is sufficient, e.g. in shooting training at the range.

Focus

Focus is your full-alert profile. It features high amplification and a wider frequency spectrum for highest situational awareness. Use this audio profile e.g. in the hunting tower to shapen your senses before your shot.

Comms

In Comms, ambient sound is deactivated and your hearing protector uses passive protection only. However, the 3.5-mm AUX input is active allowing for clear communication even in noisy environments.

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ORDERING INFORMATION

Sordin Supreme Pro-X slim headband

Product no	Version	Cup color	Headband	Sealing rings
74302-X/L-S	Sordin Supreme Pro-X slim Green	Green	Black leather	Foam
74302-X/L-02-S	Sordin Supreme Pro-X slim Black	Black	Black leather	Foam
74302-X/L-14-S	Sordin Supreme Pro-X slim Ember	Ember	Black leather	Foam

Accessories

Product no	Version
60089-S	Sordin Supreme Hygien Kit PVC (foam) – 1 pair of gel rings, 1 pair of inserts
60092-S	Sordin Supreme Hygien Kit GEL – 1 pair of gel rings, 1 pair of inserts
60160	Sordin Helmet Adapter Kit for ARC Rail – 1 pair

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