

Sordin Sharp

Electronic hearing protector with Bluetooth Multipoint support

Headband version | Helmet version



DESCRIPTION

Sordin Sharp is designed for professionals in need to be connected all day. This high-quality electronic hearing protector comes with support of Bluetooth® Multipoint. This means that you can connect up to two external devices simultaneously, for example a smartphone and a 2-way radio. Sordin Sharp is available in headband or helmet-mounted version, with or without a boom microphone. Ambient sound support lets you hear surrounding sound, while being safely protected against harmful noise.

AVAILABLE IN

Black



KEY FEATURES

Low weight design	Sordin Sharp is considerably lighter than competing earmuffs with similar functionality.
Built-in high quality rechargeable battery	The Li-ion battery gives you several days of operating time before recharging. Easy charge using a standard USB-C cable (included).
Built-in microphones	Slim design allows you to work freely.
Selectable sealing rings	Choose between foam or gel sealing rings, replacement parts available as hygiene kits.
Bluetooth® MultiPoint	Lets you connect with one or two mobile phones, or one mobile phone and one two-way radio.
Robust design	Cups of high-performance ABS plastic for light weight and excellent impact strength.
Voice feedback	Helps you to easily control the functions of the hearing protector.
Power saver	Automatic power off, no risk of unintentionally discharging the battery.
Built-in antenna	Discretely mounted, no protruding parts.
Headband version	The headband comes with a ventilated textile sleeve for maximum comfort all day. Replacement sleeves available as accessories.
Helmet version	Easy to connect to different helmet models using a standard adapter. A patented spring offers optimum pressure and comfort.
Ambient sound	Stay connected with the surrounding environment, while being protected from hazardous noise.
Sound reproduced	Through the level dependent function is limited to a maximum of 82 dB.
Built-in microphones	Slim design allows you to work freely.
Attachable boom microphone	Yes, under right cup.

MATERIALS

Cups	ABS, TPE
Attenuation foam	PU foam
Foam sealing rings	ABS, PP, TPE, PU foam
Gel sealing rings	ABS, PVC foil, silicone gel
Headband	POM
Cup supporting arm	PA
Support band	TPE
Adapter, holder	PA
Spring cover	PP
Spring	Stainless steel
Screws	Stainless steel
Textile sleeve	PA, TPU, PE foam

TECHNICAL INFORMATION

Batteries	Built-in rechargeable Li-ion battery (2,000 mAh). Estimated operating time: 36 hours. 60 min charging gives minimum 8 hours usage time. USB-C cable for charging included. <i>(Only charge the batteries between temperatures 0°C to +40°C.)</i>
Operating conditions	-20°C to +55°C
Weight headband / helmet version	Foam: 387 gram / 387 gram Gel: 428 gram / 429 gram
Complies with following environmental directives	RoHS, WEEE
Bluetooth profiles	Bluetooth 5 certified with A2DP (streaming), and HSP HFP (headset) support
IP class	IP 44 (Sharp)
Complies with following environmental directives	IP 67 (noise-cancelling boom microphone – accessory)

EN APPROVAL

Tests and certificates

Tested and certified to EN 352-1:2002, EN 352-3:2002, EN 352-4/A1:2005 and EN 352-8:2008.
IEC 62368-1 (EN 62368-1+A11), IEC 62133-2:2017 and 2014/53/EU Radio Equipment Directive RED.
Certificate: CE 737872 (headband and helmet versions).
Notified body: BSI Netherlands (NB 2797)



ATTENUATION DATA

Sordin Sharp headband – foam sealing ring

H	M	L	SNR	NRR
35 dB	26 dB	19 dB	29 dB	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	17.2	17.9	24.6	30.8	35.9	43.9	42.6
Standard Deviation, s_f (dB)	2.3	2.4	2.1	2.4	2.5	3.8	2.3
APV ($M_f - s_f$) (dB)	14.9	15.5	22.6	28.3	33.4	40.1	40.3

Sordin Sharp headband – GEL sealing ring

H	M	L	SNR	NRR
35 dB	26 dB	19 dB	29 dB	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	16.6	18.0	25.3	31.3	37.0	44.9	44.9
Standard Deviation, s_f (dB)	2.9	1.7	2.4	2.7	2.7	3.7	2.8
APV ($M_f - s_f$) (dB)	13.7	16.4	22.9	28.6	34.4	41.2	42.1

Sordin Sharp helmet – foam sealing ring

H	M	L	SNR	NRR
33 dB	25 dB	19 dB	28 dB	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	18.8	18.7	24.5	30.0	36.2	45.0	40.8
Standard Deviation, s_f (dB)	3.0	3.2	3.1	2.9	2.6	4.7	4.9
APV ($M_f - s_f$) (dB)	15.8	15.4	21.4	27.1	33.6	40.4	36.0

Sordin Sharp helmet – GEL sealing ring

H	M	L	SNR	NRR
35 dB	25 dB	18 dB	28 dB	n/a



Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	17.2	17.9	24.6	30.8	35.9	43.9	42.6
Standard Deviation, s_f (dB)	2.3	2.4	2.1	2.4	2.5	3.8	2.3
APV ($M_f - s_f$) (dB)	14.9	15.5	22.6	28.3	33.4	40.1	40.3

Criterion levels (dB)

Model	H	M	L
Headband version	116.6	105.5	97.1
Helmet version	116.3	104.9	95.3

Earmuff Sizes

Model	Approved sizes
Headband version	S, M, L
Helmet version	S, M, L

NOTICE! Sizes refer to approved standard head sizes according to applicable standards. Each hearing protector model is available in one size only.

ORDERING INFORMATION

Sordin Sharp headband

Product no	Version	Cup color	Ring
84000-04-B-G-S	Sordin Sharp headband, gel, black, with boom microphone	Black	Gel
84000-04-B-S	Sordin Sharp headband, foam, black, with boom microphone	Black	Foam
84000-04-G-S	Sordin Sharp headband, gel, black	Black	Gel
84000-04-S	Sordin Sharp headband, foam, black	Black	Foam

Sordin Sharp helmet (adapter 20)

Product no	Version	Cup color	Ring
84520-04-B-G-S	Sordin Sharp helmet, adapter 20, gel, black, with boom microphone	Black	Gel
84520-04-B-S	Sordin Sharp helmet, adapter 20, foam, black, with boom microphone	Black	Foam
84520-04-G-S	Sordin Sharp helmet, adapter 20, gel, black	Black	Gel
84520-04-S	Sordin Sharp helmet, adapter 20, foam, black	Black	Foam

What helmets works with adapter 20? See latest list on www.sordin.com/sharp

Accessories

Product no	Version
60050-S	Hygiene kit, foam sealing rings – 1 pair of foam rings, 1 pair of inserts <i>(Foam ring: TPE (thermoplastic elastomer) covered PU (polyurethane) foam. Inserts: PU foam.)</i>
60051-S	Hygiene kit, gel sealing rings – 1 pair of gel rings, 1 pair of inserts <i>(Gel ring: TPU (thermoplastic polyurethane) covered silicone gel. Inserts: PU foam.)</i>
60125-S	Textile sleeve for Sordin Sharp headband version
60126-S	Boom microphone <i>(Optional communication boom microphone for best noise suppression in high-noise environments.)</i>
60128-S	Windshield foam, extra 10-pack
60129-S	USB-C Adapter Cable <i>(One cable is included in the Sharp product package)</i>