


SORDIN SHARP™

STAYING ALERT AT WORK

 Bluetooth®

 FM radio

 Ambient sound



SORDIN



Staying alert at work

Sharp™ is Sordin's brand new electronic hearing protector. A high-end hearing protector for professional use, which allows you to do your thing and perform at your best.

Connect Sharp to your employees' smartphones and you have a company communications network for interaction between colleagues.

Sharp is also about spicing up your workday. Listen to FM radio, stream a playlist or enjoy an audiobook, switching easily between modes.

And because you're hopefully going to keep your Sharp on for most of the day, we made it super-comfortable to wear with optional foam or gel sealing rings.

“ Surrounded by noise, you're in your true element. Protected against harmful sound peaks, while picking up every sound you need to hear with perfect clarity.”



Ambient sound

Like noise wasn't there

Sharp reduces noise to harmless levels, while allowing you to hear all the important sounds around you naturally. Including your colleagues talking.

Whatever the kind of noise you're exposed to at work, Sharp will suppress it to safe and comfortable levels. Thanks to Sharp's efficient noise attenuation, it's almost like noise wasn't there at all.

However, Sharp is not about silencing the soundscape surrounding you. Because you need to be able to pick up the important sounds clearly and comfortably, those that affect your job performance and safety.

It's about hearing what you want to hear, while keeping out the annoying and harmful noise peaks. A balance struck beautifully by Sharp.



Picking up voices

You can hear your colleagues talking in a normal conversational tone with your earmuffs on. You'll discern every syllable with perfect clarity while remaining undisturbed by the noise around you.

Amplifying quiet sounds

By turning up the volume, you can locate even very quiet sounds. This can improve workplace safety in unexpected ways. For example, you'll hear quiet forklifts and other electric vehicles more easily with your Sharp on.

Which Sharp are you?

Sharp comes highly standardized. Just specify if you are going to use your hearing protector with a helmet or not, and what sealing rings you prefer.

Headband version

A wide headband with a ventilated padding provides a firm and comfortable fit. Easily adjustable headband for individual fit. Large space for the ears inside the cup.



| | |
|---------------|--------------|
| CATEGORY | Electronical |
| SEALING RING | Foam or gel |
| WEIGHT (FOAM) | 387 g |
| SNR | 29 |

Helmet version

A patented spring design offers excellent comfort. Three distinct wearing positions. Excellent grip makes it easy to adjust the cups even when wearing gloves.



| | |
|---------------|--------------|
| CATEGORY | Electronical |
| SEALING RING | Foam or gel |
| WEIGHT (FOAM) | 387 g |
| SNR | 28 |

Foam rings

Sealing rings made of PU (polyurethane) foam, covered by TPE (thermoplastic elastomer) foil. Inserts made of PU foam.

Gel rings

Sealing rings made of silicone gel, covered by PVC (polyvinyl chloride) foil. Inserts made of PU foam.

Hygiene kits

Hygiene kits are available for both foam and gel rings, each including one pair of sealing rings and one pair of inserts.





Business and pleasure

Designed specifically for professional use, Sharp comes with a robust design and several work enhancing features.

But isn't efficiency always at the expense of personalization – and fun? Not necessarily. Let's look at a typical Sharp workday in a factory, for example.

Say you're managing a support team in a production facility. You begin your day by phoning your team members in a multipart call to go through today's tasks.

As soon as you're done instructing your people, you switch to your private phone to stream your favorite playlist or audiobook. Or FM radio.

A work procedure like this is available from day 1 with Sharp. All it takes are two or more hearing protectors and a smartphone for each team member.

And if your work environment is very noisy, just add Sordin's noise-cancelling boom microphone..



Only fantasy limits

The communications capabilities of Sharp are limited only by fantasy. Just imagine what two simultaneously connected smartphones could do for collaboration at work. Or one smartphone and one mobile radio unit.

Bluetooth® MultiPoint

Sharp comes with Bluetooth® MultiPoint as standard. You can therefore personalize your input and output audio sources – spicing up your workday by streaming music or listening to FM radio – and participate in dynamic work teams with colleagues, partners or customers.

You're in charge, simple as that

You're in charge of your Sharp. Because you choose the input mode – FM radio, Bluetooth® connectivity or ambient sound. So, a well-deserved pause is only a push of a button away.

You toggle easily between modes by using push buttons on the outside of your right-hand cup. The buttons are easy to use, even wearing gloves.

Every push of a button is confirmed through voice feedback, making it easy for you to navigate back and forth between modes and functions.



The features that keep you alert

All features except those indicated with * are valid both for the headband and the helmet version of Sharp.



FM radio

Scan and store your favorite radio channels.

Headband version*

Ventilated padding and textile sleeve for a comfortable fit. Sharp is also available in helmet version.

Soft headband*

The headband version has an ultra soft foam band for maximum comfort all day.

Low weight design

Sharp is considerably lighter than competing earmuffs with similar functionality.

Built-in high quality battery

The Li-ion battery gives you several days of operating time before recharging.



Ambient sound

Stay connected with the surrounding environment, while being protected from hazardous noise.

Built-in microphones

A slim design allows you to work freely.

Accessories

Connect accessories such as a boom microphone for use in noisy environments.

Helmet version*

A patented spring design offers optimum pressure and comfort. Sharp is also available in headband version.

Helmet attachment*

Easy to connect to several market-leading helmet models using a standard adapter.

Built-in antenna

Discretely mounted, no protruding parts.

Power saver

Automatic power off, no risk of unintentionally discharging the battery.

Voice feedback

Helps you to easily control the functions of the hearing protector.

Robust design

Cups of high-performance ABS plastic for light weight and excellent impact strength.



Bluetooth® MultiPoint

Lets you connect with one or two mobile phones/devices to stream music or a soundbook.

Selectable sealing rings

Choose between foam or gel sealing rings, replacement parts available as hygiene kits.

Rechargeable battery

Recharge Sharp's built-in battery using a standard USB-C cable (included).

Specifications

MATERIALS

| | | | |
|--------------------|-----------------------------|-----------------|------------------|
| Cups | ABS, TPE | Support band | TPE |
| Attenuation foam | PU foam | Adapter, holder | PA |
| Foam sealing rings | ABS, PP, TPE, PU foam | Spring cover | PP |
| Gel sealing rings | ABS, PVC foil, silicone gel | Spring | Stainless steel |
| Headband | POM | Screws | Stainless steel |
| Cup supporting arm | PA | 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 |
| IP class | IP 44 (Sharp) IP 67 (noise-cancelling boom microphone – accessory) |

PRODUCT VARIANTS

| Product no | Version | Cup color | Ring |
|--------------|--|-----------|------|
| 84000-04-S | Sordin Sharp headband version, foam, black | Black | Foam |
| 84000-04-G-S | Sordin Sharp headband version, gel, black | Black | Gel |
| 84520-04-S | Sordin Sharp helmet version, adapter 20, foam, black | Black | Foam |
| 84520-04-G-S | Sordin Sharp helmet version, adapter 20, gel, black | Black | Gel |

ACCESSORIES

| | |
|---------|--|
| 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 Sharp headband version |
| 60126-S | Boom microphone <i>(Optional communication boom microphone for best noise suppression in high-noise environments.)</i> |

EN APPROVALS

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

Headband version, foam sealing ring

| | H=35 dB M=26 dB L=19 dB SNR=29 dB | | | | | | |
|--------------------------------|---|------|------|------|------|------|------|
| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation, M_i (dB) | 17.2 | 17.9 | 24.6 | 30.8 | 35.9 | 43.9 | 42.6 |
| Standard deviation, s_i (dB) | 2.3 | 2.4 | 2.1 | 2.4 | 2.5 | 3.8 | 2.3 |
| APV (M_i-s_i) (dB) | 14.9 | 15.5 | 22.6 | 28.3 | 33.4 | 40.1 | 40.3 |

Headband version, gel sealing ring

| | H=35 dB M=26 dB L=19 dB SNR=29 dB | | | | | | |
|--------------------------------|---|------|------|------|------|------|------|
| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation, M_i (dB) | 16.6 | 18.0 | 25.3 | 31.3 | 37.0 | 44.9 | 44.9 |
| Standard deviation, s_i (dB) | 2.9 | 1.7 | 2.4 | 2.7 | 2.7 | 3.7 | 2.8 |
| APV (M_i-s_i) (dB) | 13.7 | 16.4 | 22.9 | 28.6 | 34.4 | 41.2 | 42.1 |

Helmet version, foam sealing ring

| | H=33 dB M=25 dB L=19 dB SNR=28 dB | | | | | | |
|--------------------------------|---|------|------|------|------|------|------|
| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation, M_i (dB) | 18.8 | 18.7 | 24.5 | 30.0 | 36.2 | 45.0 | 40.8 |
| Standard deviation, s_i (dB) | 3.0 | 3.2 | 3.1 | 2.9 | 2.6 | 4.7 | 4.9 |
| APV (M_i-s_i) (dB) | 15.8 | 15.4 | 21.4 | 27.1 | 33.6 | 40.4 | 36.0 |

Helmet version, gel sealing ring

| | H=35 dB M=25 dB L=18 dB SNR=28 dB | | | | | | |
|--------------------------------|---|------|------|------|------|------|------|
| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 |
| Mean attenuation, M_i (dB) | 17.1 | 17.5 | 25.5 | 31.9 | 36.5 | 47.2 | 46.7 |
| Standard deviation, s_i (dB) | 3.4 | 2.7 | 3.1 | 3.3 | 3.0 | 2.7 | 2.8 |
| APV (M_i-s_i) (dB) | 13.7 | 14.8 | 22.4 | 28.7 | 33.5 | 44.5 | 43.9 |

APPROVED HELMET COMBINATIONS

| Helmet model | Adapter no | Approved sizes |
|----------------------|------------|----------------|
| Petzl Vertex | 20 | S, M, L |
| Petzl Strato | 20 | S, M, L |
| Kask Zenith | 20 | S, M, L |
| MSA V-Gard H1 | 20 | S, M, L |
| 3M SecureFit X5000VE | 20 | S, M, L |
| JSP EVO Vista | 20 | S, M, L |

CRITERION LEVELS (dB)

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



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