

# Sordin left/RIGHT™

ERGONOMIC EXCELLENCE

**SORDIN**

# Because we're all different

The idea behind Sordin left/RIGHT was to create the most people-friendly, versatile and comfortable hearing protector ever! So, we set out to design a truly universal product range.

Our heads are all shaped slightly differently. And so are the size and position of our ears. We studied these individual differences closely to make sure our new product family would fit perfectly on everyone.

Sordin left/RIGHT was the first hearing protector ever designed with people's physical variation in mind. We spent four years developing the concept and came up with a design that covers all head and ear shapes and sizes.

It turned out to be time well spent. Sordin left/RIGHT earned itself a reputation of ergonomic excellence, even among Hollywood stars and Formula 1 teams – and continues to be the world's undisputed number one on comfort and ergonomics.



## Mirrored ears, mirrored cups

Your ears are mirrored images of each other – and so should each cup of your hearing protector be. You may be surprised to hear that Sordin left/RIGHT is the only hearing protector range with its left and right cups designed differently.

## Large cups

How do you design cups to make sure they'll fit everyone? You make them just a little bit bigger. Compare the cup size of Sordin left/RIGHT with any other hearing protector and you'll see that there's a slight but significant difference.

## Clever headband design

Ever experienced the headband ending up too far back on your head? That's because the headband is conventionally aligned with the cups. On Sordin left/RIGHT, we designed the headband differently to make sure it's always positioned at the top of your head.



## NOISE PROTECTION

# Comfort and performance go hand in hand

The best hearing protector is one you're wearing all day. One that is so comfortable, you'll soon forget you're wearing it at all – even when you're right at the epicenter of stressful noise.

The functional comfort of Sordin left/RIGHT has attracted thousands of users over the years – and keeps attracting thousands to this day. Because perfect comfort is not just about ergonomics, it's about attenuation performance, too.

Many conventional hearing protectors vary in performance depending on the user's head or ear shape. In contrast, thanks to its unique design, Sordin left/RIGHT suppresses noise more effectively than conventional hearing protectors.

You want hearing protection that suppresses noise adequately – enough to ensure your health and safety – but not excessively. Because safety is also about staying alert with events around you, which may be difficult when you're isolated inside your own silent bubble.

The right attenuation for you depends on your specific noise environment. That's why the Sordin left/RIGHT family of passive hearing protectors comes in three different attenuation levels: low, medium and high.



Sordin left/RIGHT  
Low



Sordin left/RIGHT  
Medium



Sordin left/RIGHT  
High



## AUDIO SUPREMACY

# For audiophiles and other workers

Like to listen to music while working? Then Sordin left/RIGHT is perfect for you. Just like ergonomics, sound quality is about your well-being – and that's always worth investing in.

Whether you're the music- or radio-at-work type of person, there's a Sordin left/RIGHT for you. Our electronic range includes models with built-in FM radio or with an AUX input for connecting an external audio device, e.g. a smartphone. Whatever your preference, you're in for a perfect audio experience – Sordin left/RIGHT comes with hifi quality comparable to dedicated music headphones.

For safety reasons, you need to be able to control your hearing protector without losing focus on your surrounding environment. We therefore designed an easy-to-use control panel located on the outside of the right-hand cup – with buttons so easy to use you can even keep your gloves on.

The battery time is generous, for example appr. 300 hours for the CO Pro and CO CC models. Even so, we equipped all electronic models (except CC) with a battery save function, which automatically turns off the hearing protector after four hours of idle time. So, you can trust the batteries to be ok even if you'd leave your Sordin left/RIGHT on by accident over night.



Sordin left/RIGHT FM Pro



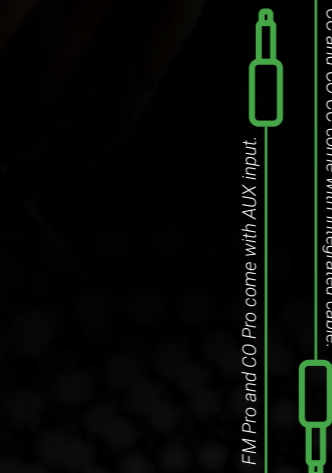
Sordin left/RIGHT CO Pro



Sordin left/RIGHT CC



Sordin left/RIGHT CO CC



FM Pro and CO Pro come with AUX input.

CC and CO CC come with integrated cable.



### FM Radio

As the name implies, Sordin left/RIGHT FM Pro comes with built-in FM radio. It's easy to navigate between channels and to control the volume using ergonomically designed external buttons, even with your gloves on.



### External audio sources

All electronic Sordin left/RIGHT models come with wired connectivity to external audio sources. Connect your smartphone and you'll be able to enjoy your favorite playlist, audiobook or podcast, while staying safely protected against harmful noise at all times.



### Battery time

The battery time is about 300 hours for CO Pro and CO CC, both of which use two standard AA batteries. The generous battery time, combined with auto power off after 4 hours, gives you weeks of entertainment – without worrying about annoying end of battery.

## ● AMBIENT SOUND

# Hearing clearly though the buzz

There's a kind of magic about high-end ambient sound technology: suppressing harmful noise while amplifying the important sounds around you, such as warning signals and people talking. How's it even possible?

Of course, it's not magic – only clever engineering. Sordin left/RIGHT is equipped with advanced electronics and smart algorithms that help distinguish between different types of audio, providing you with a safe and comfortable sound image.

Your Sordin left/RIGHT suppresses the frequency tops of harmful noise as well as instantly protecting against short but loud noise peaks. These safety features are always active for your protection, along with selected sound amplification which lets you discern important sounds such as alarms or other warning signals.

Sordin left/RIGHT also enables you to maintain face-to-face conversations even in very noisy environments. You'll hear people next to you speaking in a normal voice without removing your hearing protector or unintentionally raising your voice. And you'll hear them more clearly and naturally than using any other hearing protector.

### What does CO mean?

*Ambient sound is available in CO Pro and CO CC, where CO stands for "cutoff." Any sound pressure above 82 dB (A) is suppressed to a safe and comfortable level. Meanwhile, you'll remain fully aware of things around you and can continue to make conversation in a normal voice.*



Sordin left/RIGHT  
CO Pro



Sordin left/RIGHT  
CO CC

### Yes to good sounds, no to noise

Ambient sound is an advanced audio feature, available in selected electronic Sordin left/RIGHT models, which allows you to hear those surrounding sounds that you want to hear – while effectively suppressing harmful noise.

### Detecting audio sources

The clever use of microphones, electronics and software algorithms makes it possible for you to locate the source of a sound – identifying both its direction and distance – with high accuracy.



## VOICE COMMUNICATION

# How to teamwork in 130 dB

In a pit stop, everything is pushed to the limit. Maximizing timing, performance, safety – all in a truly noisy environment. Extreme as it may seem, the pit stop scenario is not *that* unlike many industrial situations that share the same pains and needs.

The clockwork precision of a race pit stop wouldn't be possible without effective communications between team members. What it takes is a set of well-synced Sordin left/RIGHT units equipped with sophisticated communications capabilities.

The key is hearing each other clearly, while being online only when speaking. This enables communications to be practical despite to the intense noise of engines roaring in the background. We solved this problem by integrating a push-to-talk (PTT) device and a boom microphone in two of our electronic Sordin left/RIGHT models, CO and CO CC.

The Sordin left/RIGHT boom microphone contains smart technology which picks up voice clearly, while efficiently suppressing surrounding noise. The boom microphone is activated using the PTT, allowing team members to easily initiate a conversation while remaining in full focus on their task at hand.

### Boom microphone

The electronic Sordin left/RIGHT models CC and CO CC both come with a boom microphone, enabling audible voice communications even in extremely noisy environments.

### Push to talk (PTT)

A PTT is key to successful multiparty communications between members of work teams operating in noisy environments, as it prevents noise from cluttering the intercom during no-talk intervals.

### Coiled cable

The coiled cable (not visible in image) keeps unused cable out of your way, avoiding cable damage while increasing personal safety.

### What does CC mean?

"CC" in models CC and CO CC stands for "connected by cable", which means that you must connect an external communication device to the built-in cable of your Sordin left/RIGHT unit.



Sordin left/RIGHT  
CC



Sordin left/RIGHT  
CO CC

# Sordin left/RIGHT features

All Sordin left/RIGHT models are available in headband or helmet versions.

The picture below is a collage of four different models. For a detailed description of each model, see next page.

## FM radio version

The Sordin left/RIGHT FM Pro comes with built-in FM radio. You can also connect an external device to enjoy music, audiobooks, etc.

## Helmet versions

All Sordin left/RIGHT models are available in a helmet version, supporting most popular industrial helmet brands and models.

## Easy helmet mounting

It is easy to connect to different helmet models using a standard adapter. A patented spring offers optimum pressure and comfort.

## Power save function

Selected electronic models have a battery save function, which automatically turns off the hearing protector after 4 hours of idle time.

## Easy handling

The ergonomic external keypad makes it easy to manage audio functions such as scanning radio channels and controlling volume.

## AUX input

Use the 3.5-mm AUX input to connect an external accessory such as a smartphone or MP3 player.

## Sound quality

All electronic Sordin left/RIGHT models come with advanced stereo sound quality comparable to many dedicated music headphones.

## Passive models

Our passive hearing protectors come with three different attenuation levels, all featuring the renowned Sordin left/RIGHT comfort and ergonomic excellence.

## Comfort sealing rings

The foam sealing ring adds to the excellent comfort and performance of Sordin left/RIGHT, ensuring a tight fit around the ear, and the comfort necessary to wear the hearing protector for a whole day straight.

## Headband design

The headband was especially designed to ensure it stays where it's supposed to for optimum fit – at the top of your head.

## The cups

The unique cup design is one of the true hallmark features of Sordin left/RIGHT. Large and mirrored in design to fit every user perfectly.

## Low weight

Given its high quality, Sordin left/RIGHT is surprisingly light-weight – further contributing to its excellent comfort.

## Batteries

The easily replaceable standard AA batteries give you several days of uninterrupted operating time.

## Robust design

The Sordin left/RIGHT cups are made of high-performance ABS plastic to ensure light weight and excellent impact strength.

## 82 dB(A) cutoff

Any noise exceeding 82 dB(A) is automatically suppressed to protect your hearing, while leaving weaker sounds unattenuated.

## Boom microphone

The Sordin left/RIGHT CC and CO CC models both come with a built-in boom microphone, enabling efficient voice communications even in extremely noise environments.

## Push to talk (PTT)

When noise is truly intense, you want to spare team members of noise from your mic. A PTT only exposes others while you're talking, allowing you to make yourself heard more clearly.

## Ambient sound

Thanks to ingenious electronics, Sordin left/RIGHT lets you hear the sounds you need to hear – and even accurately tell the distance and direction to their sources.

# Select your Sordin left/RIGHT

- 1) For approved helmet combinations, see back cover
- 2) For complete attenuation data, see separate data sheets
- 3) Estimated time with normal use

							
Feature	Sordin left/RIGHT Low	Sordin left/RIGHT Medium	Sordin left/RIGHT High	Sordin left/RIGHT FM Pro	Sordin left/RIGHT CO Pro	Sordin left/RIGHT CC	Sordin left/RIGHT CO CC
Category	Passive	Passive	Passive	Electronic	Electronic	Electronic	Electronic
Attenuation	Low	Medium	High	Medium	Medium	Medium	Medium
Headband version	•	•	•	•	•	•	•
Helmet version <sup>1)</sup>	•	•	•	•	•	•	•
Weight (headband / helmet)	190g / 212g	232g / 254g	313g / 336g	326g / 352g	326g / 352g	395g / 395g	326g / 326g
Weight with batteries (headband / helmet)	n/a	n/a	n/a	310g / 310g	310g / 310g	380g / 380g	352g / 352g
Attenuation data H, M, L, SNR (headband) <sup>2)</sup>	27, 22, 14, 24 (dB)	32, 26, 17, 28 (dB)	33, 31, 23, 33 (dB)	31, 24, 15, 27 (dB)	31, 24, 15, 27 (dB)	34, 27, 19, 29 (dB)	31, 24, 15, 27 (dB)
Attenuation data H, M, L, SNR (helmet) <sup>2)</sup>	27, 22, 15, 25 (dB)	29, 25, 17, 28 (dB)	32, 28, 21, 31 (dB)	31, 24, 16, 27 (dB)	31, 24, 16, 27 (dB)	32, 26, 19, 28 (dB)	31, 24, 16, 27 (dB)
Cup and headband color	Black	Black	Black	Black	Black	Black	Black
Sound quality	n/a	n/a	n/a	Stereo	Stereo	Stereo	Stereo
Sound limitation <82 dB(A)	n/a	n/a	n/a	n/a	•	n/a	•
AUX input	n/a	n/a	n/a	•	•	n/a	n/a
FM radio	n/a	n/a	n/a	•	n/a	n/a	n/a
Automatic shutdown after 4 hrs	n/a	n/a	n/a	•	•	n/a	•
Low battery warning	n/a	n/a	n/a	•	•	n/a	•
Batteries	n/a	n/a	n/a	2 x AA/LR06	2 x AA/LR06	n/a	2 x AA/LR06
Estimated battery lifetime (hrs) <sup>3)</sup>	n/a	n/a	n/a	100	300	n/a	300
Ambient sound	n/a	n/a	n/a	n/a	•	n/a	•
Boom microphone	n/a	n/a	n/a	n/a	n/a	•	•
PTT	n/a	n/a	n/a	n/a	n/a	•	•
<b>Product no</b>							
Headband version	61000-04-S	62000-04-S	63000-04-S	50000-04-S	51000-04-S	55000-04-S	56000-04-S
Helmet version	61501-04-S (Adapter 1) 61502-04-S (Adapter 2) 61514-04-S (Adapter 14)	62501-04-S (Adapter 1) 62502-04-S (Adapter 2) 62514-04-S (Adapter 14)	63501-04-S (Adapter 1) 63502-04-S (Adapter 2) 63514-04-S (Adapter 14)	50500-04-S	51500-04-S	55500-04-S	56500-04-S
Hygiene kit	60097-S	60098-S	60099-S	60096-S	60096-S	60096-S	60096-S
Wind shield for boom microphone (100 pcs)	n/a	n/a	n/a	n/a	n/a	60166-S	60166-S



# Approved helmet combinations

## Passive Sordin left/RIGHT

Helmet	Sordin left/RIGHT Low		Sordin left/RIGHT Medium		Sordin left/RIGHT High	
	Adapter	Sizes	Adapter	Sizes	Adapter	Sizes
Peltor G2000/G2001	1	S, M, L	1	S, M, L	1	S, M, L
Peltor G3000/G3001	2	S, M, L	2	S, M, L	2	S, M, L
3M 1465	1	S, M, L	1	S, M, L	1	S, M, L
Auboueix IRIS II	1	S, M, L	1	S, M, L	1	S, M, L
Centurion 1100/1125 Euro	1	S, M, L	1	S, M, L	1	S, M, L
Centurion Concept	7	S, M, L	7	S, M, L	7	M, L
Grolls Balance AC	1	S, M, L	1	S, M, L	1	S, M, L
Grolls Balance HD	1	S, M, L	1	S, M, L	1	S, M, L
MSA Thermalgard	14	S, M, L	14	S, M, L	14	S, M, L
MSA Super V-Gard II	14	S, M, L	14	S, M, L	14	S, M, L
MSA Linesman	14	S, M, L	14	S, M, L	14	S, M, L
MSA Topgard	14	S, M, L	14	S, M, L	14	S, M, L
MSA V-Gard	14	S, M, L	14	S, M, L	14	S, M, L
MSA V-Gard H1	14	S, M, L	14	S, M, L	14	S, M, L
MSA V-Gard 200	14	M, L	14	M, L	14	L
MSA V-Gard 500	14	S, M, L	14	S, M, L	14	S, M, L
MSA V-Gard 910	14	S, M, L	14	M, L	14	M, L
MSA V-Gard 950	14	S, M, L	14	M, L	14	M, L
Protector Style 300	1	S, M, L	1	S, M, L	1	S, M, L
Protector Style 600	2	S, M, L	2	S, M, L	2	S, M, L

## Electronic Sordin left/RIGHT

Helmet	Adapter	Size	Helmet	Adapter	Size
Auboueix IRIS II	1, 2	S, M, L	Peltor G3000/G3001	2	S, M, L
Grolls Balance AC	1	S, M, L	Protector Style 300	1	S, M, L
Grolls Balance HD	1	S, M, L	Protector Style 600	2	S, M, L
MSA V-Gard	14	S, M, L	Petzl Vertex	20	S, M, L
MSA V-Gard 200	14	M, L	Petzl Strato	20	S, M, L
MSA V-Gard 500	14	S, M, L	Kask Zenith	20	S, M, L
MSA V-Gard 520	14	S, M, L	MSA V-Gard H1	14, 20	S, M, L
MSA V-Gard 910	14	M, L	3M SecureFit X5000VE	20	S, M, L
MSA V-Gard 950	14	M, L	JSP EVO Vista	20	S, M, L
Peltor G2000/G2001	1	S, M, L			

For all new certified helmet combination please visit [www.sordin.com](http://www.sordin.com)

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