

Sordin Supreme T2 CC

Electronic hearing protector for MIL, tactical and law enforcement

Headband | Neckband | ARC Rails | Rear ARC Rails



DESCRIPTION

Next generation Sordin tactical platform

Sordin Supreme T2™ is an advanced communications headset for demanding tactical applications. Every component is designed to perfection to ensure the extremely high reliability necessary in a critical situation. Based on the SordinFLEX™ modular design platform, T2 comes in many variants and can be re-designed depending on requirements.

T2 has a very high noise reduction (SNR/NRR) for its slim cup design. This offers operators high safety and comfort even in high-noise environments.

AVAILABLE IN

- Tan
- Green
- Black



KEY FEATURES

Cup design	Slim cups to fit both left-handed and right-handed shooters and wearers of eyeglasses.
Audio system	SordinHEAR2 offers excellent sound quality and four audio profiles – Tactical, Comfort, Dual and Ambient off.
Decay time	Short decay time, restoring normal sound instantly after a shot.
Ambient sound	High amplification and natural sound reproduction with compression of dangerous sounds. Amplifying harmless ambient sound while protecting against harmful noise.
Voice feedback	Yes.
Directional sensitivity	Yes.
MIL	Applicable tests made in accordance with MIL standards MIL-STD-810H and EMC-MIL-STD-461G.
Loudspeakers	Failsafe loudspeakers ensuring continued radio/communication even when batteries are out.
Audio quality	High audio quality, natural ambient sound reproduction.
Sordin FLEX	The SordinFLEX modular design platform includes accessories as different suspensions (headband, neckband, ARC rails, rear ARC rails), boom-mic, headband covers, cushions.
Downlead plug option	Single or dual comm.
Speech microphone type	Electret as standard, also available as dynamic. Available for left or right cup.
Dual protection	Yes (see attenuation data for more information). SNR:40 / NRR:35
Keypad	Ergonomic easy-to-use push buttons to operate the electronic functions.
Waterproof microphones	The ambient microphones are water proof.
Auto power off	Yes. Auto shutdown (4 h).
Low battery warning	Voice feedback for low battery warning (when 10% remains).
Robust electronics	Electronics coated in multiple layers for full waterproofness and increased robustness.

MATERIALS

Cups and foam rubber inserts	ABS and PU foam
Suspension	Stainless steel and plastic
Headband cover	Leather or colored textile
Cushions	ABS, PVC foil, memory foam or silicone gel cushions

TECHNICAL INFORMATION

Batteries	1 x standard AA 1.5V (Sordin Power 14500 rechargeable 3.7 V also supported)
Loudspeaker input impedance:	2 x 32 Ohm as standard
Operating time:	Min 70 hours
Operating conditions:	-32°C to +55°C / -25.6°F to +131°F
Max audio signal allowed from the connected radio to not exceed 82 dB(A) through the speakers	137,3 mVrms
Tested for Peak impulse reduction	Yes, see attenuation data for more information
Salt water tested	Yes
Immersion tested	Submerged at 2 meters for 35 min

CONNECTION

The Sordin Supreme T2 CC models have a fixed downlead for connecting an external acoustic source, e.g. communication radio, hunting radio or mobile phone. Refer to the operating instructions for the external audio equipment to ensure that it is correctly connected. The standard input 32 Ohms. The circuit must not be subjected to a signal greater than 2 volts to prevent permanent damage. If the audio signal level does not exceed: 137 mVrms, the sound pressure level inside the hearing protector will not exceed 82 dB(A).

The hearing protector is equipped with an adjustable microphone. The microphone is noise compensating, which ensures very good voice perception even in noisy environments. Note! It is important that the head of the microphone is positioned close to your mouth, about 2-5 mm from your lips, in order for noise compensation to work well. To prevent interference from wind noise we recommend that the accompanying windshield is used.

Down lead plug option

Single comm: 4 pin US Nato wiring, TP120 type (as standard)

Single comm: 4 pin UK Nato wiring TP120 type

Dual Comm: Sordin 6 pin

Down lead cable length: 410mm

EU TYPE EXAMINATION CERTIFICATE

Product Assessments: Sordin Supreme T2 CC

The product assessments were based on the following standards:

EN 352-1:2020 hearing protectors - ear-muffs

EN 352-2:2020 hearing protectors- earplug

EN 352-3:2020 earmuffs attached to head protection

EN 352-4:2020 hearing protectors - level-dependent ear-muffs

EN 352-6:2020 hearing protectors - ear-muffs with safety related audio input

MIL STANDARDS

The Sordin Supreme T2 CC models have been tested against relevant parts of the standards **MIL-STD-810H** and **MIL-STD-461G**.

AUDIO PROFILES MODE DESCRIPTION



Our hearing is more or less sensitive to certain frequencies. The SordinHEAR2™ audio profiles are pre-set listening modes, which optimize your sound experience by adapting the gain and frequency depending on the tactical situation. It is easy to switch between audio profiles, and each selection is confirmed by voice feedback.

Tactical

Tactical is the normal audio profile for general purposes. Gain and frequency are set to normal levels in order to mimic natural ambient sound and to balance situational awareness and comfort in the field.

Comfort

Comfort is a profile with reduced gain and a reduced frequency spectrum. Ideal in noisy environments when communication is prioritized over ambient sound.

Dual

This 2-in-1 profile has high gain and a wide frequency band for high situational awareness in quiet environments. Alternatively, use it when combining your T2 with earplugs to pick up some ambient sounds, even in high-noise environments.

Ambient off

In this mode, ambient sound is deactivated, and your headset uses passive hearing protection only. Suitable when maximum focus on team communications is required in high-noise environments.

TACTICAL PLATFORM DESCRIPTION

SordinFLEX™ is a modular design platform which enables a new level of versatility in tactical hearing protection. It's high modularity allows users to reconfigure the T2 CC headset to match different tactical situations, using high-quality accessories and simple user procedures. No tools are needed when reconfigure the headset suspension. Headband, neckband and helmet-mounted models (ARC Rails or Rear ARC Rails) are available.



Suspensions – Headband/Neckband/ARC Rails/Rear ARC Rails

Headband covers – Leather/Black textile

PTTs – Single-/dual-com push-to-talk devices

Hygiene replacement kits – Memory foam/gel cushions, liner

Power accessories – Batteries and chargers



HEADBAND

ATTENUATION DATA (EN 352)

Memory foam cushions

WEIGHT = 354 g

H	M	L	SNR
32 dB	27 dB	20 dB	29 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	19.3	17.5	19.8	26.2	33.1	31.5	41.3	41.4
Standard Deviation, s_f (dB)	3.0	2.6	2.4	2.2	2.0	2.6	2.5	3.4
APV ($M_f - s_f$) (dB)	16.2	14.9	17.5	24.0	31.1	28.9	38.8	38.1

Silicone gel cushions *(accessorie)*

WEIGHT = 412 g

H	M	L	SNR
31 dB	27 dB	22 dB	29 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	20.5	19.7	21.1	26.2	30.7	31.1	41.1	42.2
Standard Deviation, s_f (dB)	2.2	2.2	2.4	2.8	2.8	2.7	3.2	2.7
APV ($M_f - s_f$) (dB)	18.4	17.6	18.8	23.4	27.8	28.4	37.8	39.6

Dual protection

(Memory foam cushions and Sordin SoftEar ear plug (M/L))

WEIGHT = 354 g

H	M	L	SNR
38 dB	38 dB	36 dB	40 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	32.1	34.7	41.2	50.7	43.3	39.8	48.0	46.9
Standard Deviation, s_f (dB)	5.9	5.7	5.6	5.9	4.5	4.6	4.0	3.9
APV ($M_f - s_f$) (dB)	26.2	29.1	35.6	44.8	38.8	25.3	44.0	42.9

Criterion Levels

Model	L	M	H
All variants	Not applicable	107.2 dB	110.0 dB

Note!

There is no significant difference between the measured criterion level (L) when the level-dependent function is on or off, meaning the requirement for minimum criterion level (L) does not apply.

HEADBAND

ATTENUATION DATA (ANSI S3.19-1974)

Memory foam cushions

CSA CLASS = **B** WEIGHT = **354 g**

NRR
23 dB

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	17	20.6	25.4	33.2	33.0	39.8	43.2	43.2	41.5
Standard deviation dB(A)	1.5	3.3	1.5	2.6	3.1	3.2	2.4	3.2	3.2

Silicone gel cushions *(accessorie)*

CSA CLASS = **B** WEIGHT = **412 g**

NRR
23 dB

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	16.9	19.3	23.8	30.9	30.6	38.4	40.9	42.2	39.6
Standard deviation dB(A)	3.0	1.7	2.0	2.0	2.3	3.1	3.3	2.6	2.6

Dual protection

(Memory foam cushions and Sordin SoftEar ear plug (M/L))

CSA CLASS = **AL** WEIGHT = **354 g**

NRR
35 dB

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	36.7	44.2	55.7	42.4	41.2	46.8	50.6	48.7	48.5
Standard deviation dB(A)	4.3	4.1	2.1	3.8	3.6	3.2	3.8	2.1	3.7

PEAK IMPULSE NOISE REDUCTION (ANSI S12.42-2010)

Memory foam cushions

Impulse peak level (dB)	130	150	168
Impulse peak insertion loss (dB)	29.4	36.5	34.4

Silicone gel cushions

Impulse peak level (dB)	130	150	168
Impulse peak insertion loss (dB)	26.9	33.4	34.2

Caution!

As there can be a large variation in fit and fit ability between users, which may affect noise attenuation, Sordin cannot guarantee that the specified attenuation values will be achieved for all users and in all situations.

NECKBAND

ATTENUATION DATA (EN 352)

Memory foam cushions

WEIGHT = 320 g

H	M	L	SNR
29 dB	26 dB	21 dB	28 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	18.1	16.9	20.6	26.9	31.9	29.2	38.5	39.6
Standard Deviation, s_f (dB)	3.0	2.0	2.6	3.0	2.8	3.6	3.5	3.9
APV ($M_f - s_f$) (dB)	15.1	14.9	17.9	23.9	29.0	25.6	35.0	35.7

Silicone gel cushions (accessorie)

WEIGHT = 378 g

H	M	L	SNR
31 dB	27 dB	22 dB	29 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	19.1	18.9	20.8	25.6	32.5	30.9	39.8	40.8
Standard Deviation, s_f (dB)	3.1	2.2	2.4	2.8	2.7	3.0	3.1	4.0
APV ($M_f - s_f$) (dB)	16.0	16.8	18.5	22.8	29.8	27.9	36.7	36.8

NECKBAND

ATTENUATION DATA (ANSI S3.19-1974)

Memory foam cushions

CSA CLASS = B WEIGHT = 320 g

NRR
23 dB

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	15.8	20.1	25.7	34.0	30.1	36.0	40.3	42.2	41.1
Standard deviation dB(A)	2.6	1.8	2.0	3.5	3.2	3.6	1.9	2.7	3.2

Silicone gel cushions (accessorie)

CSA CLASS = B WEIGHT = 378 g

NRR
23 dB

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	16.8	19.8	25.7	31.0	31.9	39.9	42.3	40.7	40.1
Standard deviation dB(A)	3.0	1.9	2.0	2.3	2.3	2.7	2.5	2.5	2.8

Caution!

As there can be a large variation in fit and fit ability between users, which may affect noise attenuation, Sordin cannot guarantee that the specified attenuation values will be achieved for all users and in all situations.

ARC RAILS

ATTENUATION DATA (EN 352)

Memory foam cushions

TeamWendy Exfil LTP-Helmet Rail3.0, Size1 M/L

WEIGHT = **333 g**

H	M	L	SNR
29 dB	25 dB	21 dB	28 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	18.4	19.7	20.3	24.4	28.3	28.8	40.6	42.9
Standard Deviation, s_f (dB)	2.2	2.0	2.4	2.3	3.0	2.8	3.4	3.4
APV ($M_f - s_f$) (dB)	16.1	17.7	17.9	22.1	25.3	26.0	37.2	39.6

Silicone gel cushions (accessorie)

TeamWendy Exfil LTP-Helmet Rail3.0, Size1 M/L

WEIGHT = **390 g**

H	M	L	SNR
30 dB	25 dB	21 dB	28 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	18.6	17.7	19.9	24.1	29.6	29.8	39.7	42.2
Standard Deviation, s_f (dB)	2.7	2.3	2.2	2.6	2.7	2.4	2.3	3.1
APV ($M_f - s_f$) (dB)	15.9	15.4	17.7	21.5	26.9	27.4	37.4	39.1

ARC RAILS

ATTENUATION DATA (ANSI S3.19-1974)

Memory foam cushions

TeamWendy Exfil LTP-Helmet Rail3.0, Size1 M/L

CSA CLASS = **B** WEIGHT = **333 g**

NRR	21 dB
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Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	17.5	18.7	22.1	29.0	30.5	37.5	39.6	43.4	42.9
Standard deviation dB(A)	2.5	2.6	1.9	3.0	3.1	2.5	2.0	3.2	2.7

Silicone gel cushions (accessorie)

TeamWendy Exfil LTP-Helmet Rail3.0, Size1 M/L

CSA CLASS = **B** WEIGHT = **390 g**

NRR	22 dB
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Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	17.1	18.7	22.5	27.7	30.6	37.8	41.2	43.3	42.2
Standard deviation dB(A)	2.6	2.3	1.5	1.7	2.2	2.1	3.2	3.1	2.2

Caution!

As there can be a large variation in fit and fit ability between users, which may affect noise attenuation, Sordin cannot guarantee that the specified attenuation values will be achieved for all users and in all situations.

Approved helmet combinations

Model	Helmet model	Approved sizes and size mode		
		S	M	L
ARC with memory foam/gel cushions	Team Wendy EXFIL LTP helmet rail 3.0, size 1 M/L	S	S	S

REAR ARC RAILS

ATTENUATION DATA (EN 352)

Memory foam cushions

OPS-CORE FAST CARBON HIGH CUT HELMET, M/L

WEIGHT = 387 g

H	M	L	SNR
33 dB	28 dB	22 dB	30 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	20.0	18.3	22.3	27.2	32.8	32.3	39.9	40.3
Standard Deviation, s_f (dB)	3.1	2.9	2.9	2.9	2.6	2.5	2.5	2.6
APV ($M_f - s_f$) (dB)	17.0	15.3	19.3	24.4	30.2	29.8	37.4	37.7

Silicone gel cushions (accessorie)

OPS-CORE FAST CARBON HIGH CUT HELMET, M/L

WEIGHT = 445 g

H	M	L	SNR
30 dB	25 dB	20 dB	28 dB

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation, M_f (dB)	19.9	18.2	20.1	24.1	28.2	30.5	42.0	41.7
Standard Deviation, s_f (dB)	2.5	2.5	2.6	1.8	2.5	2.3	3.6	2.6
APV ($M_f - s_f$) (dB)	17.4	15.8	17.5	22.3	25.7	28.3	38.4	39.1

REAR ARC RAILS

ATTENUATION DATA (ANSI S3.19-1974)

Memory foam cushions

OPS-CORE FAST CARBON HIGH CUT HELMET, M/L

CSA CLASS = B WEIGHT = 387 g

NRR	23 dB
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Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	19.4	21.7	25.6	32.1	31.1	39.3	41.5	44.6	43.2
Standard deviation dB(A)	2.8	2.5	2.4	3.1	2.8	2.8	2.1	2.0	1.7

Silicone gel cushions (accessorie)

OPS-CORE FAST CARBON HIGH CUT HELMET, M/L

CSA CLASS = B WEIGHT = 445 g

NRR	23 dB
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Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000
Mean attenuation dB(A)	18.4	21.1	24.8	29.8	31.9	40.9	42.7	44.6	41.3
Standard deviation dB(A)	3.0	2.1	2.6	2.8	2.0	3.0	3.2	2.9	2.5

Caution!

As there can be a large variation in fit and fit ability between users, which may affect noise attenuation, Sordin cannot guarantee that the specified attenuation values will be achieved for all users and in all situations.

Approved helmet combinations

Model	Helmet model	Approved sizes and size mode		
		S	M	L
R-ARC with memory foam/gel cushions	OPS-CORE fast carbon high cut helmet, M/L	L	L	L

ORDERING INFORMATION

Sordin Supreme T2 CC Headband

Product no	Version	Cup color	Headband	Cushions
304004-10P	Sordin Supreme T2 CC Headband	Black	Black leather	Memory foam
304005-10P	Sordin Supreme T2 CC Headband	Tan	Black leather	Memory foam
304006-10P	Sordin Supreme T2 CC Headband	Green	Black leather	Memory foam
305004-10P	Sordin Supreme T2 CC Right Headband	Black	Black leather	Memory foam
305005-10P	Sordin Supreme T2 CC Right Headband	Tan	Black leather	Memory foam
305006-10P	Sordin Supreme T2 CC Right Headband	Green	Black leather	Memory foam
304004-11P	Sordin Supreme T2 CC Headband	Black	Black textile	Memory foam
304005-11P	Sordin Supreme T2 CC Headband	Tan	Black textile	Memory foam
304006-11P	Sordin Supreme T2 CC Headband	Green	Black textile	Memory foam

Sordin Supreme T2 CC Neckband

Product no	Version	Cup color	Headband	Cushions
304004-20P	Sordin Supreme T2 CC Neckband	Black	Black textile	Memory foam
304005-20P	Sordin Supreme T2 CC Neckband	Tan	Black textile	Memory foam
304006-20P	Sordin Supreme T2 CC Neckband	Green	Black textile	Memory foam

Sordin Supreme T2 CC ARC Rails

Product no	Version	Cup color	Headband	Cushions
304004-30P	Sordin Supreme T2 CC ARC Rails	Black	n/a	Memory foam
304005-30P	Sordin Supreme T2 CC ARC Rails	Tan	n/a	Memory foam
304006-30P	Sordin Supreme T2 CC ARC Rails	Green	n/a	Memory foam

Sordin Supreme T2 CC Rear ARC Rails

Product no	Version	Cup color	Headband	Cushions
304004-31P	Sordin Supreme T2 CC Rear ARC Rails	Black	n/a	Memory foam
304005-31P	Sordin Supreme T2 CC Rear ARC Rails	Tan	n/a	Memory foam
304006-31P	Sordin Supreme T2 CC Rear ARC Rails	Green	n/a	Memory foam

What's In the box?

1 x Sordin Supreme T2 CC
1 x AA Alkaline battery
1 x Quick guide
1 x Manual

Accessories & spare parts

Product no	Version
60193	Sordin Power battery 3.7 V 14500 rechargeable Li-ion 3,000 mAh
60194	Sordin Power battery charger
60197-S	Hygiene replacement kit, memory foam cushions – 1 pair of cushions, 1 pair of liner
60198-S	Hygiene replacement kit, silicone gel cushions – 1 pair of cushions, 1 pair of liner
60200	Headband cover, textile (black)
60201	Suspension kit, T2 Neckband
60202	Suspension kit, T2 Helmet Rear ARC Rails
60203	Suspension kit, T2 Helmet ARC Rails
60204	Suspension kit, T2 Headband Textile
60205	Suspension kit, T2 Headband Leather