

# EU Type Examination Certificate

This is to certify that:

Sordin AB  
Rostugnsvägen 17  
Vikmanshyttan  
776 70  
Sweden

Holds Certificate Number:

CE 737872

In respect of:

**SHARP 1 and SHARP 2 to EN 352-1:2002, EN 352-3:2002, EN 352-4:2001/A1:2005 and EN 352-8:2008**

on the basis that BSI carried out the relevant Type Examination procedures under the requirements with the Regulation (EU) 2016/425 of the European Parliament and Council relating to Personal Protective Equipment Regulation (PPE) Annex V (Module B) and meets the relevant health and safety requirements specified in Annex II

For and on behalf of BSI, a Notified Body for the above Regulation (Notified Body Number 2797):



Denelise L'Ecluse, Managing Director Assurance - Continental Europe

First Issued: 2021-03-25

Latest Issue: 2023-06-08

Effective Date: 2023-06-08

Expiry Date: 2026-03-24



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# EU Type Examination Certificate

No. CE 737872

## Product Specification

**Model:** SHARP-1

**Product Description:** Headband mounted adjustable electronic ear muffs. The headband is made from POM, the ear muff cup is made from ABS, the ear cushions are made from foam and TPE.

**Size:** Small, Medium, Large.

## Performance Data:

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

**SNR:** 29.0 dB

**H:** 35.0 dB

**M:** 26.0 dB

**L:** 19.0 dB

**Weight:** 387g

## Technical Specification:

EN 352-1:2002 Hearing protectors - General requirements - Part 1: Ear-Muffs .

EN 352-4:2001 Hearing protectors – Safety requirements and testing – Part 4: Level dependent earmuffs.

EN 352-8:2008 Hearing protectors – Safety requirements and testing – Part 8: Entertainment audio ear-muffs

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# EU Type Examination Certificate

No. CE 737872

## Product Specification

**Model:** SHARP-1B

**Product Description:** Headband mounted adjustable electronic ear muffs. The headband is made from POM, the ear muff cup is made from ABS, the ear cushions are made from gel and PVC foil.

**Size:** Small, Medium, Large.

## Performance Data:

Frequency (Hz)	125	250	500	1000	2000	4000	8000
<b>Mean Attenuation (dB)</b>	16.6	18.0	25.3	31.3	37.0	44.9	44.9
<b>Standard Deviation(dB)</b>	2.9	1.7	2.4	2.7	2.7	3.7	2.8
<b>APV (dB)</b>	13.7	16.4	22.9	28.6	34.4	41.2	42.1

**SNR:** 29.0 dB

**H:** 35.0 dB

**M:** 26.0 dB

**L:** 19.0 dB

**Weight:** 428g

## Technical Specification:

EN 352-1:2002 Hearing protectors - General requirements - Part 1: Ear-Muffs .

EN 352-4:2001 Hearing protectors – Safety requirements and testing – Part 4: Level dependent earmuffs.

EN 352-8:2008 Hearing protectors – Safety requirements and testing – Part 8: Entertainment audio ear-muffs

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# EU Type Examination Certificate

No. CE 737872

## Product Specification

**Model:** SHARP-1BB

**Product Description:** Headband mounted adjustable electronic ear muffs. The headband is made from POM, the ear muff cup is made from ABS, the ear cushions are made from gel and PVC foil.

**Size:** Small, Medium, Large.

## Performance Data:

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
<b>Mean Attenuation (dB)</b>	19.3	18.1	22.2	28.3	34.8	38.4	44.5	44.8
<b>Standard Deviation(dB)</b>	3.7	2.8	2.1	1.7	2.4	1.9	3.6	2.0
<b>APV (dB)</b>	15.6	15.3	20.1	26.7	32.4	36.5	40.8	42.8

**SNR<sub>m</sub>:** 33.8 dB

**H<sub>m</sub>:** 39.2 dB

**M<sub>m</sub>:** 31.1 dB

**L<sub>m</sub>:** 24.3 dB

**SNR<sub>s</sub>:** 1.6 dB

**H<sub>s</sub>:** 1.5 dB

**M<sub>s</sub>:** 1.6 dB

**L<sub>s</sub>:** 2.1 dB

**SNR:** 32 dB

**H:** 38 dB

**M:** 29 dB

**L:** 22 dB

**Weight:** 476 g

**Technical Specification:** EN 352-1:2020 Hearing protectors – General requirements – Part 1: Ear-Muffs .

EN 352-4:2001 Hearing protectors – Safety requirements and testing – Part 4: Level dependent earmuffs.

EN 352-8:2008 Hearing protectors – Safety requirements and testing – Part 8: Entertainment audio ear-muffs

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# EU Type Examination Certificate

No. CE 737872

## Product Specification

**Model:** SHARP-2

**Product Description:** Helmet mounted adjustable electronic ear muffs. The ear muff cup is made from ABS, the ear cushions are made from foam and TPE.

**Size:** Small, Medium, Large.

Performance Data:	Frequency (Hz)	125	250	500	1000	2000	4000	8000
	<b>Mean Attenuation (dB)</b>	18.8	18.7	24.5	30.0	36.2	45.0	40.8
	<b>Standard Deviation(dB)</b>	3.0	3.2	3.1	2.9	2.6	4.7	4.9
	<b>APV (dB)</b>	15.8	15.4	21.4	27.1	33.6	40.4	36.0

**SNR:** 28.0 dB

**H:** 33.0 dB

**M:** 25.0 dB

**L:** 19.0 dB

**Weight:** 387g

**Compatible Helmets:** Petzl Vertex  
Petzl Strato  
3M SecureFit X5000VE  
JSP Evo Vista  
Kask Zenith  
MSA V-Gard H1

**Technical Specification:** EN 352-3:2002 Hearing protectors. General requirements.  
Part 3. Earmuffs attached to head protection and/or face protection devices

EN 352-4:2001 Hearing protectors – Safety requirements and testing –  
Part 4: Level dependent earmuffs.

EN 352-8:2008 Hearing protectors – Safety requirements and testing –  
Part 8: Entertainment audio ear-muffs

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# EU Type Examination Certificate

No. CE 737872

## Product Specification

**Model:** SHARP-2B

**Product Description:** Helmet mounted adjustable electronic ear muffs. The ear muff cup is made from ABS, the ear cushions are made from from gel and PVC foil.

**Size:** Small, Medium, Large.

## Performance Data:

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	17.1	17.5	25.5	31.9	36.5	47.2	46.7
Standard Deviation(dB)	3.4	2.7	3.1	3.3	3.0	2.7	2.8
APV (dB)	13.7	14.8	22.4	28.7	33.5	44.5	43.9

**SNR:** 28.0 dB

**H:** 35.0 dB

**M:** 25.0 dB

**L:** 18.0 dB

**Weight:** 429g

**Compatible Helmets:** Petzl Vertex  
Petzl Strato  
3M SecureFit X5000VE  
JSP Evo Vista  
Kask Zenith  
MSA V-Gard H1

## Technical Specification:

EN 352-3:2002 Hearing protectors. General requirements.  
Part 3. Earmuffs attached to head protection and/or face protection devices

EN 352-4:2001 Hearing protectors – Safety requirements and testing –  
Part 4: Level dependent earmuffs.

EN 352-8:2008 Hearing protectors – Safety requirements and testing –  
Part 8: Entertainment audio ear-muffs

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## Certificate Administration Details

Technical File Reference: CE\_SHARP-1 – Headband  
CE\_SHARP-2 – Helmet

## Certificate Administration Record and BSI internal Technical File Review reference

Issue date	Comments	BSI Review Ref.
March 2021	First Issue.	2797:21:3310000
June 2023	Addition of model; SHARP 1BB	2797:23:3874721

**Note:** The Certificate holder is responsible for ensuring that the Notified Body is advised of changes to any aspect of the overall processes utilised in the manufacture of the product, failure to do so could invalidate the Certificate in respect of product manufactured following the introduction of such changes.

## Monitoring of manufactured PPE:

The validity of the Certificate is also dependent on the maintenance of the EC quality of production by monitoring system, Module D, as referenced on BSI Certificate CE 708855.

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