

Audiocups

Noise-excluding headset enclosures



Accurate hearing thresholds

When completing audiometry tests as part of a hearing conservation programme, environmental noise levels can have a significant impact on the accuracy of the test.

Audiocups have become the preferred method for minimising background noise for mobile screening audiometry and when used in conjunction with an acoustic booth audiocups provide a best practice solution for accurate hearing tests.

Performance

Audiometry threshold measurements should be recorded in accordance to the maximum stated ambient noise levels advised in ISO 8253-1:2010. Amplivox audiocups are designed to provide unique noise attenuation to assist in accurate audiometry measurements when compared to standard audiometry headsets.

Design

Incorporating a fully articulated earphone suspension system ensures that earphone cushions are able to locate against virtually all shaped pinnas and at the same time audiocup cushions enclose the external ear to exclude background noise.

Ease of use

Audiocups can be supplied with new audiometers or can easily be retro-fitted to existing audiometers without the need to recalibrate the instrument. Future calibrations can be completed without the need to remove the earphone when using a standard 6cc coupler.

The image shows audiocups fitted with earphones and cushions.



- Allows audiometry to be completed in high ambient noise
- Invaluable when an acoustic booth is not available
- Additional attenuation when an acoustic booth is available
- Articulated suspension of the earphone provides an accurate and comfortable fit
- Easily fitted to any TDH 39 type earphone
- No requirement to recalibrate after fitting

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Technical specifications

Audiocup attenuation

The attenuation provided using TDH39 earphone with MX41/AR ear cushions within an audiocup noise reducing headset enclosure is shown below.

Frequency Hz	Attenuation dB	Standard Deviation dB
125	9	6
250	13	6
500	24	8
1000	30	8
1500	32	7
2000	39	7
3000	44	5
4000	44	8
6000	44	10
8000	35	7

Dimensions

Material: Moulded ABS plastic

Weight: 375g

Audiocups are supplied as a set of enclosures without earphones, cushions or headset leads when purchased separately from an audiometer.

To incorporate audiocups into a headset, one of the two following options will need to be completed.

Upgrading a standard audiometric headset to incorporate Audiocups

Assemble as per supplied instructions that are included with every set of Audiocups.

The following items can be sourced from the existing standard audiometric headset.

- 2 x TDH39 or DD45 type earphones
- 2 x earphone cushions
- 1 x headset cable

A new Calibration would not be required.

Assembly of a totally new headset

In addition to audiocups, the following will need to be provided/purchased

- 2 x TDH39 or DD45 type earphones
- 2 x earphone cushions
- 1 x headset cable

These parts can be supplied with Audiocups at additional cost.

Please note that a calibration would also need to be completed for the new headset and audiometer.



Audiocup consumables and accessories

Stock code	Description
AC1042	Audiocup earcushion (x1)
A030	Headset leads
A035	Screwdriver set
A026-W	TDH/DD45 ear cushion (x1)

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