

DD450

Circumaural headset

#8106236

The Gold
Standard

of Audiometric Transducers

Features

- RoHS compatible
- Good ambient noise isolation
- Adjustable soft padded headband
- Extremely comfortable ear cups
- Capable of full range testing
- Gold plated connectors
- Outstanding quality
- Robust design
- Easy to use



"The DD450 earphone has very similar characteristics to the HDA 200. No clinically important differences are expected in test results obtained with the two earphones"

Robert H. Margolis
Professor Emeritus, University of Minnesota

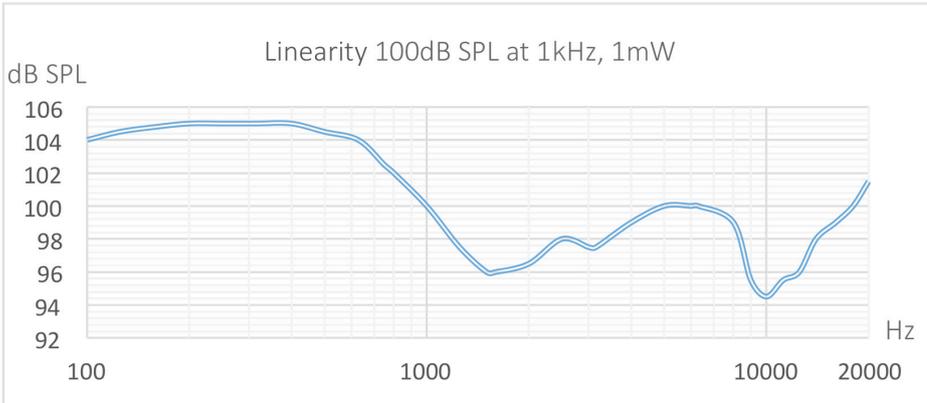
DD450 Circumaural Headset

The DD450 is a circumaural headset that can be used for audiometry testing in the standard audiometry range 125 Hz – 8 kHz as well as high-frequency testing up to 20 kHz. The DD450 complies with IEC-60645-1 and ANSI S3.6 up to 16 kHz. When using an IEC60318-1 coupler with a type 1 adaptor on an artificial ear the standard allows for calibration using the RETSPLs found in table 1. Ambient attenuation values can be found there.

The DD450 offers excellent passive attenuation and has a padded, adjustable soft headband and replaceable circumaural ear pads. It includes a highly durable cable with TINSEL core and gold-plated 6.3 mm jacks.

DD450

Technical Specifications



Compliance Standards

Standards: Complies with IEC-60645-1 and ANSI S3.6

Features

| | |
|--------------------------------|--|
| Earphone receiver: | Dynamic moving coil, special built for audiometry. |
| Nominal impedance | 40 ohm frequency response: 20 Hz – 20 kHz |
| Sensitivity: | 100 dB SPL at 1 kHz, 1 mW |
| Distortion: | < 1% at THD |
| Ambient attenuation: | See table 1 |
| Max. continuous power: | 500 mW |
| Headband tension: | 10 N ±0.5N |
| Weight complete: | 330 gram (12 oz) |
| Cable connector: | 2 mono jack terminals (red = right blue = left) |
| Cable length: | 2500 mm (100 inch) |
| Environmental: | RoHS compatible - lead and nickel free |
| Headset dimensions: | 19.1 x 9.3 x 13.4 cm |
| Headset box dimensions: | 19 x 13 x 9.5 cm |
| Accessories: | Ear cushion, item #8010894 |

DD450 Pure Tone RETSPL

| Coupler | IEC 60318-1 | Ambient attenuation | maxHL |
|--------------|-------------|---------------------|-------|
| Frequency Hz | RETSPL | [dB] | [dB] |
| 125 | 30.5 | 15 | 100 |
| 160 | 26 | 15 | 105 |
| 200 | 22 | 16 | 105 |
| 250 | 18 | 16 | 110 |
| 315 | 15.5 | 18 | 115 |
| 400 | 13.5 | 20 | 115 |
| 500 | 11 | 23 | 115 |
| 630 | 8 | 25 | 120 |
| 750 | 6 | | 120 |
| 800 | 6 | 27 | 120 |
| 1000 | 5.5 | 29 | 120 |
| 1250 | 6 | 30 | 110 |
| 1500 | 5.5 | | 115 |
| 1600 | 5.5 | 31 | 115 |
| 2000 | 4.5 | 32 | 115 |
| 2500 | 3 | 37 | 115 |
| 3000 | 2.5 | | 115 |
| 3150 | 4 | 41 | 115 |
| 4000 | 9.5 | 46 | 115 |
| 5000 | 14 | 45 | 105 |
| 6000 | 17 | | 105 |
| 6300 | 17.5 | 45 | 105 |
| 8000 | 17.5 | 44 | 105 |
| 9000 | 19 | | 100 |
| 10000 | 22 | | 100 |
| 11200 | 23 | | 95 |
| 12500 | 27.5 | | 90 |
| 14000 | 35 | | 80 |
| 16000 | 56 | | 60 |

Table 1

Test result available at www.audiologyincorporated.com