Headphone Measurements: Denon AH-D2000 B2012

**Headphone Measurements:**

- **Volts RMS required to reach 90dB SPL:** 0.064 Vrms
- **Impedance @ 1kHz:** 25 Ohms
- **Power Needed for 90dB SPL:** 0.17 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -8 dB

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**Frequency Response**

*Top - Compensated and Averaged*

*Bottom - Raw Data for Five Headphone Positions*

**Isolation**

*Attenuation of External Sound vs. Frequency*

**Electrical Impedance and Phase**

*Measured with 600 Ohm output impedance.*

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**

*Volts RMS required to reach 90dB SPL: 0.064 Vrms*

*Impedance @ 1kHz: 25 Ohms*

*Power Needed for 90dB SPL: 0.17 mW*

*Broadband Isolation in dB (100Hz to 10kHz): -8 dB*

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Headphone Measurements:

**Denon AH-D5000 B2012**

**Volts RMS required to reach 90dB SPL:** 0.081 Vrms

**Impedance @ 1kHz:** 25 Ohms

**Power Needed for 90dB SPL:** 0.26 mW

**Broadband Isolation in dB (100Hz to 10kHz):** -6 dB

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**Frequency Response**

Top - Compensated and Averaged
Bottom - Raw Data for Five Headphone Positions

**Isolation**

Attenuation of External Sound vs. Frequency

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**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

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**%THD+noise @ 90dB and 100dB**

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**30 Hz Square Wave**

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**300 Hz Square Wave**

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**Impulse Response**

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Headphone Measurements:

**Denon AH-D7000 B2012**

**Impedance @ 1kHz:** 24 Ohms

**Power Needed for 90dBSPL:** 0.15 mW

**Broadband Isolation in dB (100Hz to 10kHz):** -7 dB

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**Frequency Response**

Top - Compensated and Averaged
Bottom - Raw Data for Five Headphone Positions

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**Isolation**

Attenuation of External Sound vs. Frequency

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**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

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**%THD+noise @ 90dB and 100dB**

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**30 Hz Square Wave**

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**300 Hz Square Wave**

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**Impulse Response**

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Valois RMS required to reach 90dB SPL: 0.060 Vrms
Impedance @ 1kHz: 24 Ohms
Power Needed for 90dBSPL: 0.15 mW
Broadband Isolation in dB (100Hz to 10kHz): -7 dB
Headphone Measurements: EMu Teak 2016

**Headphone Measurements:**

- **Volts RMS required to reach 90dB SPL:** 0.055 Vrms
- **Impedance @ 1kHz:** 25 Ohms
- **Power Needed for 90d BSPL:** 0.12 mW
- **Broadband Isolation in dB (100Hz to 10kHz):** -11 dB

**Graphs:**

- **Frequency Response**
  - Top - Compensated and Averaged
  - Bottom - Raw Data for Five Headphone Positions

- **Isolation**
  - Attenuation of External Sound vs. Frequency

- **Electrical Impedance and Phase**
  - Measured with 600 Ohm output impedance.

- **%THD+noise @ 90dB and 100dB**

- **30 Hz Square Wave**

- **300 Hz Square Wave**

- **Impulse Response**

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Headphone Measurements: EMu Teak Mahogany Cups

**Headphone Measurements**

- **Volts RMS required to reach 90dB SPL**: 0.055 Vrms
- **Impedance @ 1kHz**: 25 Ohms
- **Power Needed for 90dB SPL**: 0.12 mW
- **Broadband Isolation in dB (100Hz to 10kHz)**: -12 dB

**Diagram Descriptions**

- **Frequency Response**
  - Top - Compensated and Averaged
  - Bottom - Raw Data for Five Headphone Positions

- **Isolation**
  - Attenuation of External Sound vs. Frequency

- **Electrical Impedance and Phase**
  - Measured with 600 Ohm output impedance.

- **%THD+noise @ 90dB and 100dB**

- **30 Hz Square Wave**

- **300 Hz Square Wave**

- **Impulse Response**

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Headphone Measurements: EMu Teak Rosewood Cups

**Headphone Measurements**
- Volts RMS required to reach 90dB SPL: 0.056 Vrms
- Impedance @ 1kHz: 25 Ohms
- Power Needed for 90dB SPL: 0.13 mW
- Broadband Isolation in dB (100Hz to 10kHz): -12 dB

**Electrical Impedance and Phase**
- Measured with 600 Ohm output impedance.

**Isolation**
- Attenuation of External Sound vs. Frequency

**Frequency Response**
- Top - Compensated and Averaged
- Bottom - Raw Data for Five Headphone Positions

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**
Headphone Measurements:  
Fostex TH610

**Volts RMS required to reach 90dB SPL:** 0.000 Vrms

**Impedance @ 1kHz:** 25 Ohms

**Power Needed for 90d BSPL:** 0.50 mW

**Broadband Isolation in dB (10Hz to 1kHz):** -15 dBkr

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**Frequency Response**  
Top - Compensated and Averaged  
Bottom - Raw Data for Five Headphone Positions

**Isolation**  
Attenuation of External Sound vs. Frequency

**Electrical Impedance and Phase**  
Measured with 600 Ohm output impedance.

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**

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Headphone Measurements:  Fostex TH-900

**Frequency Response**
Top - Compensated and Averaged
Bottom - Raw Data for Five Headphone Positions

**Isolation**
Attenuation of External Sound vs. Frequency

**Electrical Impedance and Phase**
Measured with 600 Ohm output impedance.

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

Impulse Response

Volts RMS required to reach 90dB SPL: 0.062 Vrms
Impedance @ 1kHz: 26 Ohms
Power Needed for 90dB SPL: 0.15 mW
Broadband Isolation in dB (100Hz to 10kHz): -7 dB
**Headphone Measurements: Fostex TH900mk2**

**Electrical Impedance and Phase**
Measured with 600 Ohm output impedance.

- **Impedance in Ohms**
- **Phase in Degrees**

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**

**Impulse Response**

**Volts RMS required to reach 90dB SPL:** 0.078 Vrms
**Impedance @ 1kHz:** 28 Ohms
**Power Needed for 90dB SPL:** 0.22 mW
**Broadband Isolation in dB (100Hz to 10kHz):** -11 dBr

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Headphone Measurements:  Fostex TH-X00 sn1927

- **Headphone Measurements**
  - Volts RMS required to reach 90dB SPL: 0.050 Vrms
  - Impedance @ 1kHz: 26 Ohms
  - Power Needed for 90dB SPL: 0.10 mW
  - Broadband Isolation in dB (100Hz to 10kHz): -10 dBr

- **Frequency Response**
  - Top - Compensated and Averaged
  - Bottom - Raw Data for Five Headphone Positions

- **Isolation**
  - Attenuation of External Sound vs. Frequency

- **Electrical Impedance and Phase**
  - Measured with 600 Ohm output impedance.

- **%THD+noise @ 90dB and 100dB**

- **30 Hz Square Wave**

- **300 Hz Square Wave**

- **Impulse Response**

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Headphone Measurements: Massdrop THX00

**Impulse Response**

Volts RMS required to reach 90dB SPL: 0.068 Vrms
Impedance @ 1kHz: 25 Ohms
Power Needed for 90dB SPL: 0.18 mW
Broadband Isolation in dB (100Hz to 10kHz): -9 dBr

**Frequency Response**

Top - Compensated and Averaged
Bottom - Raw Data for Five Headphone Positions

**Isolation**

Attenuation of External Sound vs. Frequency

**Electrical Impedance and Phase**

Measured with 600 Ohm output impedance.

**%THD+noise @ 90dB and 100dB**

**30 Hz Square Wave**

**300 Hz Square Wave**