

Salient Characteristics

Dimensions and Weight

- W x D x H: 20.1 inches x 14.6 inches x 13.2 inches (LCD raised)
- 51.0 cm x 37.0 cm x 33.5 cm
- Height with LCD lowered – 5.5 inches (14.0 cm)
- Weight: 17lb (7.7kg)
- Shipping Weight: 27lb (12.25kg)
- Power Consumption: 90 Watts

Channels

- Two Independent Channels
- Pure Tone – Channels 1 and 2

Frequency Range:

- Air Conduction: 125 Hz to 12,000*** Hz
- High Frequency:* 8,000 Hz to 20,000 Hz (8 kHz, 9 kHz, 10 kHz, 11.2 kHz, 12.5 kHz, 14 kHz, 16 kHz, 18 kHz*** and 20 kHz***)
- Full Frequency Range:* 125 Hz to 20,000 Hz
- Bone Conduction: 250 Hz to 8,000 Hz
- Sound Field:* 125 Hz to 8,000 Hz
- Paired Inserts:* 125 Hz to 8,000 Hz
- Frequency Accuracy: $\pm 1\%$

Total Harmonic Distortion:

- < 2% (earphones and paired insert phones*)
- < 5% (bone vibrator)

Intensity Range: **

- Air Conduction (TDH 50P): -10 dB HL to 120 dB HL
- High Frequency: * -20 dB HL to 100 dB HL (with Sennheiser HDA 200 Phones)
- Bone Conduction

Mastoid: -10 dB HL to 75 dB HL

Forehead: -10 dB HL to 65 dB HL

Sound Field: *

- ☐ -10 dB HL to 90 dB HL (basic speakers)
- ☐ -10 dB HL to 96 dB HL (high performance speakers)
- ☐ -10 dB HL to 102 dB HL (high performance speakers and external booster amplifier)
- Paired Inserts: * -10 dB HL to 110 dB HL
- Masking Intensity Range (Calibrated in effective masking)

Narrow Band Noise:

- Maximum dB HL is 15 dB below tone

White Noise:

- Maximum dB HL is 30 dB below tone
- Signal Format:
- Steady: Tone continuously present.
- Pulsed: Tone pulsed 200 msec ON, 200 msec OFF
- FM: Modulation Rate: 5 Hz
- Modulation Depth: +/- 5%
- Pulsed/FM: Pulsed and Modulated
- Pediatric Noise
- Pediatric Noise Pulsed
- Speech – Channels 1 and 2
- Microphone: For live voice testing and communications
- INT/EXT A & INT/EXT B: Can be utilized for internal wave files or recorded speech material from an external digital device
- Intensity Range:
- Air Conduction: -10 dB HL to 100 dB HL for TDH 50P (Linear Type 4)
- Bone Conduction
- Mastoid: -10 dB HL to 55 dB HL
- Forehead: -10 dB HL to 35 dB HL
- Sound Field:* -10 dB HL to 80 dB HL
- Paired Inserts:* -10 dB HL to 95 dB HL
- Masking Intensity Range:

Speech Noise:

- Air Conduction: -10 dB HL to 95 dB HL (TDH 50P)
- Bone Conduction: -10 dB HL to 50 dB HL (mastoid)
- -10 dB HL to 35 dB HL (forehead)
- Sound Field: -10 dB HL to 80 dB HL