

Wireless Automated Hearing Test System (WAHTS)

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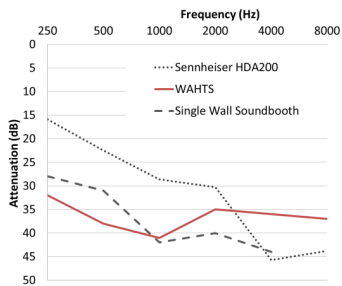
Audiometer, Sound Booth and Earphones, All in One

- Wireless
- User interface is through mobile device (iOS or Android)
- Meets ANSI S3.6 Standard



High Ambient Noise Attenuation

- ⇒ Measure normal (0 dB HL) thresholds in 55-60 dBA of ambient noise
- ⇒ Meet OSHA requirements in 65-70 dBA of noise



Test Outside the Sound Booth

Use off-the-shelf sound level meter to monitor noise during a test
 ⇒ Measure normal (0 dB HL) thresholds in 55-60 dBA of ambient noise
 ⇒ Meet OSHA requirements in 65-70 dBA of noise

TabSINT Application Sound Level Meter WAHTS

Validated in many settings

See Meinke *et al* (2017) for study in industrial setting
 In use for research in the Military, health fairs, epidemiology studies, drug development studies for 2+ years

Presented at NHCA 2016, published in IJA
 Meinke, D. K., Norris, J. A., Flynn, B. P., and Clavier, O. H. (2017).
 "Going wireless and booth-less for hearing testing in industry,"
 International Journal of Audiology 56, 41-51.

Capabilities

Device to be registered with the FDA as an audiometer
 First FDA-qualified devices available Summer 2019

- Automated audiometry
- Manual audiometry
- Automated screening
- Manual screening
- Speech-in-noise
- Many other tests possible for research applications

Note: this is a device in transition from research to clinical application
