

Quietly Making Noise, LLC

Acoustical Consulting and Noise Control

TEST EQUIPMENT AND MODELING CAPABILITIES

QMN has made a significant investment in acoustical testing equipment and has developed proprietary software tools for acoustical modeling. Other equipment is rented as needed.

The available test equipment includes the following:

- Type 1 Sound Level Meter – Norsonic Type 118 with Norsonic Type 1225 one-half inch microphone and Norsonic Type 1251 calibrator
- Noise Generator (pink and white) – Ivie Technologies, Incorporated IE-20B
- Tapping Machine – Norsonic Type 211A
- Amplifier – Crown CE 1000, Nominally 1,100 W at 1 kHz with 0.5% THD, 4 ohm Bridge-Mono mode
- Amplifier – Crown CE 4000, Nominally 2,800 W at 1 kHz with 0.5% THD, 4 ohm Bridge-Mono mode, 3,800 W with a 200 V line voltage
- Loudspeakers – Two JBL MPro MP415 two-way speakers, 15”, 350 W continuous, 1,400 W peak at 8 ohms (each speaker)
- Loudspeakers – Two JBL EON 10” speakers
- Subwoofer – One JBL MPro MP418, 18”, 600 W continuous, 2,400 W peak at 4 ohms
- Compressor / Limiter / Gate – dbx Professional Products, 166XL
- Crossover – dbx Professional Products, 234 Stereo 2/3 Way, Mono 4-Way
- Equalizer – dbx Professional Products, 215 Dual 15-Band Graphic Equalizer

Proprietary software tools have been developed for the following types of acoustical analysis:

- Acoustical modeling of near field and far field sound levels for complex facilities
- Design and modeling of acoustical enclosures and barrier walls
- Design and modeling of silencers
- Calculation of transmission loss and sound transmission class (STC) ratings
- Calculation of absorption coefficient and noise reduction coefficient (NRC) ratings
- Calculation of impact sound pressure levels and impact insulation class (IIC) ratings
- Calculation of insertion loss values
- Calculation and modeling of source sound power levels and sound pressure levels for industrial equipment, traffic, aircraft, trains, community noise, and other noise sources

All software tools have been validated and verified through many years of actual field test and laboratory test experience.

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Member, Institute of Noise Control Engineers and National Council of Acoustical Consultants