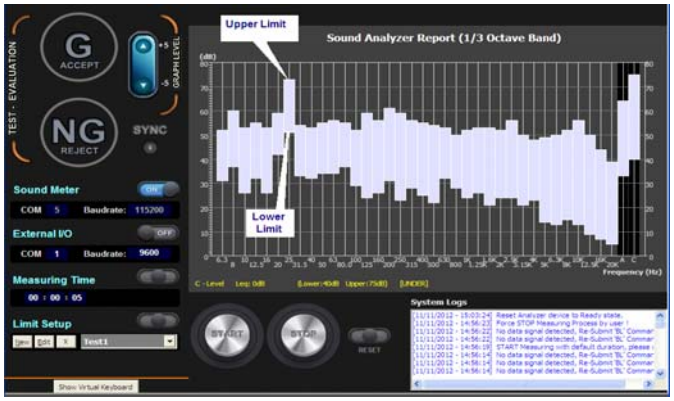
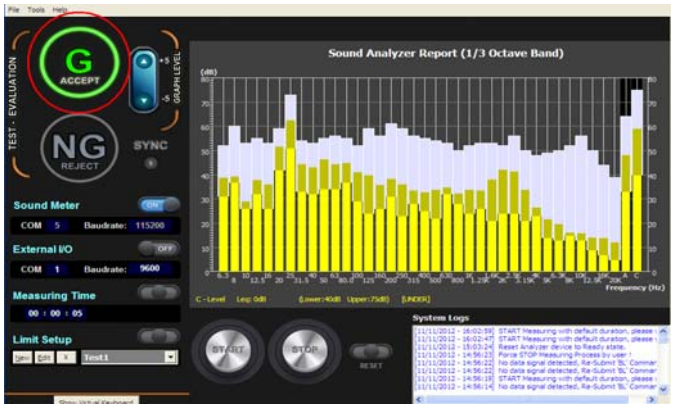
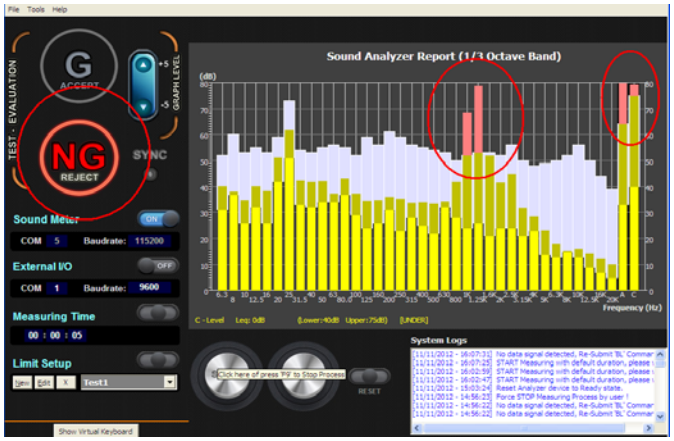
SoundBox QC

Noise Check and Quality Control Systems by SP Sonic







SoundBox QC

SoundBox QC specializes in PC-based test and measurement systems used for production testing in a wide range of applications.

SoundBox QC delivers this new industrial quality tool for a wide range of applications including gear boxes, bearings, electrical motors, fans, compressors etc. In short terms all kinds of rotating machinery.

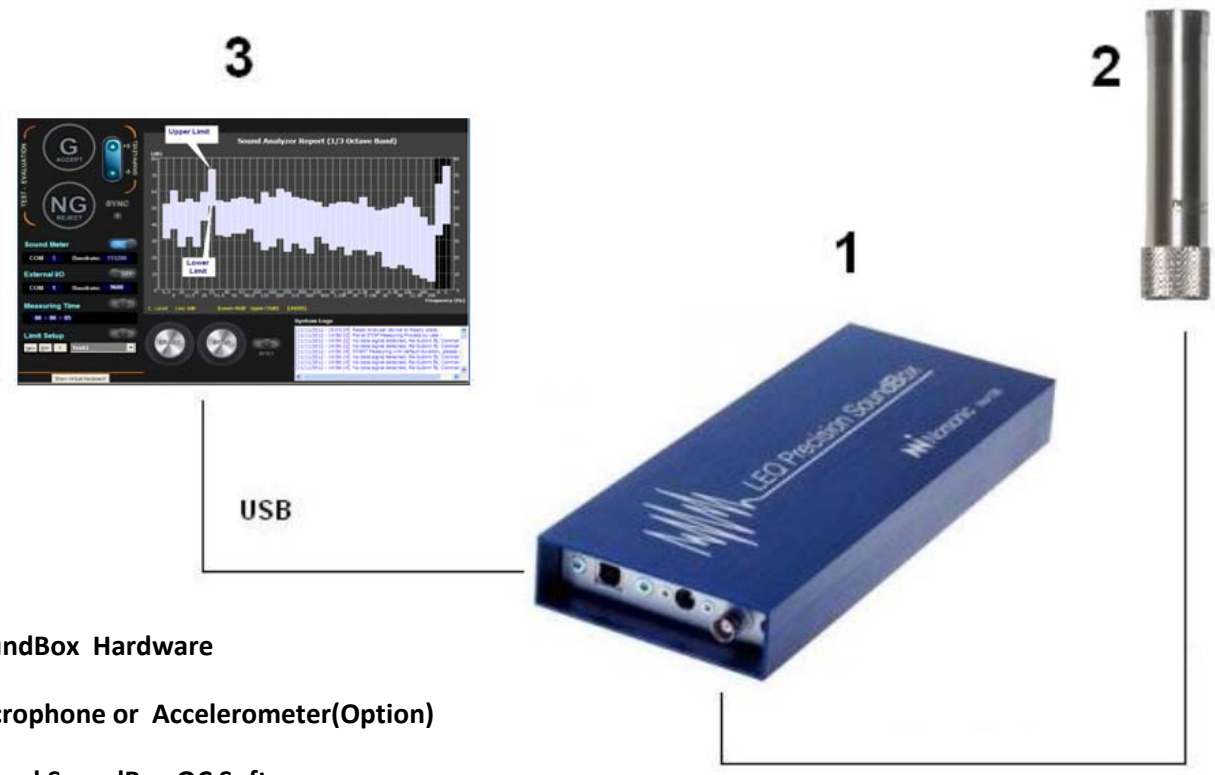
We deliver semi-automatic test systems and fully automated production test systems to detect clicks, distortion, mechanical faults, sound annoyance, rattles etc.

As some may know, there are technical challenges with traditional used test equipment:

Production line testing is very strange. Customers like to sort good and bad units based on sound measurements.

External noise makes this OK/NO decision a bit complicated; at least for automatic systems. Therefore, this is often a task relying on human judgment.

But how comes that a human being at the production can classify the units by ear and the same task is really complicated for even the most refined automatic test system?



1. **SoundBox Hardware**
2. **Microphone or Accelerometer(Option)**
3. **PC and SoundBox QC Software**

Applications

- Sound quality test
- Quality control in process line
- Gear box test
- Bearings mornitoring
- Electrical motors test
- Fans and compressors test

Features

- Real Time 1/3 Octave Band
- Automatic control OK / NG
- Compare with reference spectrum
- Both upper and lower reference spectrum
- Identify case (Option)

Specification

Hardware

- IEC 61672 Class 2. "single-range" 120 dB dynamic range. USB interface. Each unit includes Pre-polarized Condenser Microphone , 3 ft Microphone cable, Windscreen , USB data interface cable.
- 1/3-octave real-time filters in the frequency range 6.3-20000 Hz

Software

- OS Windows XP,Windows7 and Windows8

Option

Hardware

- Opt1: IEC 61672 Class1 Standard
- Opt2: UBS Remote control Start/Stop(NO or NC switch)
- Opt3: UBS Remote control alarm or on/off
- Opt4: General Propose Accelerometer sensor for vibration test with 1 ft cable

Software

- Opt S1: Automatic Data logger for product line, csv. Format(Excel)
- Opt S2: Identify case for product NG

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