ADAMS ENGG. PROJECTS PVT. LTD.

empowering technology

www.adamsengg.com

COMPANY

Adams Engineering Projects Pvt. Ltd, Founded in 2009 (was formerly a division of Adams Technologies Pvt. Ltd), is an Engineering company pioneering in the field of Automotive Testing, Noise & Vibration and Durability Engineering. The company provides engineering services in the area of Vibration Testing in NVH analysis, calibration services. The company also provides test equipment and facilities for automotive applications for better product performances. We have grown manifolds in the last two years and expand ourselves by providing better testing solutions, new technology products, synergising with key customers, software partners and hardware suppliers.

Our objective is to provide a one stop shop for all your requirements from Sensors, Data Acquisition to creating test facilities. We expand our horizon by co-developing new technology products, synergizing with our key customers, software partners and hardware suppliers.

We have experienced team in the area of Automotive, Aerospace and Defence testing, who has been catering to the growing needs of the countries Automotive test applications, satellite test applications and having objective to educate people to pioneer in the above fields.

MANAGEMENT

The Directors, who have started this venture, envisioned the future, identifies the exponential growth possibilities and formulated just the right strategies through well-orchestrated tie-ups, ensuring only success. Vast experience of the Directors and Senior people of the organisation, with an overall experience of more than 100 man years, provide testing & analysis services and equipments based on customer requirements. Their vibrant knowledge in Applications, Technology and Services not only helps the customers to get their products performed to the test specifications. We also engage ourselves in providing technology transfers of what we adapt, thereby the customer gain knowledge and confidence of improving the product quality and reliability.

TEAM

Adams Engineering Projects has their own test facility base in Chennai and has purposeful offices in Chennai, Bangalore, New Delhi and Pune with service engineers and resident engineers in Ahmedabad and Vizag. The company is armed with professionals of Electronics, Electricals and Mechanical background, who understands the test needs of the customers and provide quality services. They are well supported by the non-technical staffs.

Adams Engineering Projects has an undisputed edge over other service providers in the above area, by offering competitive costs, quality service and competent delivery schedules.

OUR TEAM

Automotive

ARAI, Pune
Arvin Meritor, Bangalore
Ashok Leyland, Chennai
Bajaj Auto Ltd, Chennai
BEHR, Pune
Bosch, Bangalore
Brakes India, Chennai
Caterpillar, Chennai
Continental, Bangalore
Daimur, Chennai
General Motors, Bangalore
Hero Moto Corp, Daruhera
Honeywell, Pune
John Deere, Pune
Lucas TVS, Chennai
Madras Engg., Chennai
Mahindra & Mahindra, Nasik
Mahindra Research Valley, Chennai
Maruti Suzuki India Ltd., Gurgaon
Minda Acoustics, Manesar
Modine, Chennai
MRF, Chennai
Nissan Ashok Leyland, Chennai
PRICOL, Coimbatore
Rico Auto, Gurgaon
Roots Industries, Coimbatore
Subros, Noida
TAFE, Chennai
Tata Motors, Pune
Turbo Energy Ltd., Chennai
TVS Motor Co., Hosur
UCAL Fuel Systems, Chennai
Valeo, Chennai
Visteon Climate Systems, Bhiwadi
Visteon, Chennai
Wabco India, Chennai
Wheels India, Chennai

Aerospace

HAL, Bangalore
HAL, Hyderabad
HAL, Korwa
HAL, Lucknow
HAL, Nasik
IISU, Trivandrum
ISRO Satellite Centre, Bangalore
LPSC, Trivandrum
NAL, Bangalore
SAC, Ahmedabad
SHAR Centre, Sriharikota
VSSC, Trivandrum

Defense

ADA, Bangalore
ADE, Bangalore
Andhra Electronics, Kakinada
CVRDE, Chennai
DMDE, Hyderabad
DRDL, Hyderabad
GTRE, Bangalore
LMW, Coimbatore
LRDE, Bangalore
LTE, Coimbatore
NPOL, Cochin
NSTL, Vishakapatnam
R&DE, Pune

Industrial and Others

Cookson, Bangalore
Crompton Greaves, Mumbai
L&T, Chennai
L&T, Mumbai
Linkwell, Hyderabad
NIOT, Chennai
SERC, Chennai
Siemens, Mumbai
Wipro, Bangalore

Educational

Amrita, Coimbatore
Anna University, Chennai
CBRI, Roorkee
IICPT, Thanjavur
IISC, Bangalore
IIT, Chennai
IIT, Delhi
IIT, Guwahati
IIT, Hyderabad
IIT, Mumbai
Karunya, Coimbatore
MSRSAS, Bangalore
PSG, Coimbatore
Saha Institute of Nuclear Physics, Kolkatta
VIT, Vellore

Test Centre

CPRI, Bangalore
CPRI, Bhopal
ERDA, Baroda
FCRI, Palghat
HCL, Chennai
NPL, New Delhi
STQC, All Centers

VIBRATION TEST FACILITY

Adams Engineering Projects Private Limited offers Vibration Testing and Calibration Services which can help ensure that your design will survive its intended environment. Vibration durability testing of product and vibration analysis can optimize real life performance and helps reducing field return costs through improved product reliability.

Our team of experts can help in identifying and solving durability related problems and also help in design of fixtures for testing.

Our test center is located in
Ambattur Industrial Estate, Chennai.

Solutions offered

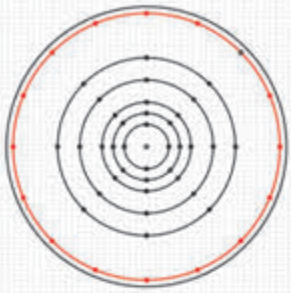
- General Vibration Testing
- Durability Testing
- Resonance Search
- Road load Simulation
- Shock or Bump Testing
- Gun Fire Testing
- Transportation Vibration Simulation
- Multi Axis Testing
- Mixed Mode Testing (SOR, ROR...)
- Fixture Design & Validation

Accelerometer Calibration

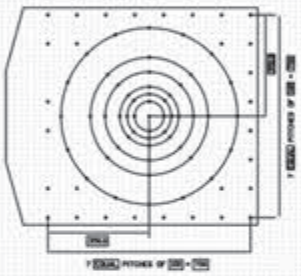
- Calibration of accelerometers up to 10 KHz
- As per ISO 16023 standards
- Traceability to NIST / PTB standard

35 kN Vibration Shaker

- 3500 Kgf LDS V875 shaker
- Force: 3500Kgf Sine & Random
- Bare Table Acceleration : 110g Pk
- Max. Velocity: 1.8 m/s
- Max. Displacement: 50.8mm
- Armature Dia : 440 mm
- Head Expander Dia : 640 mm
- Slip Table : 750 mm x 750 mm Square
- Frequency Range : 2 Hz – 3500 Hz
- Armature Resonance > 2500 Hz
- SPA 40K – 40 KVA Amplifier
- 8 channel Vibration Controller
- Sine, RSTD, Sine Notching, Sine Dwell
- Random, Random Limiting,
- Classical Shock, TTH, SRS
- SOR, ROR, SOROR, LTH



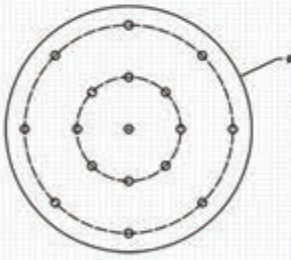
HOLE DETAILS:
53 HOLES - M 8 X 1.25 - Pos Tol - Ø0.18
16 HOLES - EQUISPACED ON 609.6 PCD
8 HOLES - EQUISPACED ON 406.4 PCD
8 HOLES - EQUISPACED ON 304.8 PCD
8 HOLES - EQUISPACED ON 203.2 PCD
8 HOLES - EQUISPACED ON 152.4 PCD
4 HOLES - EQUISPACED ON 101.6 PCD
1 HOLE POSITIONED IN CENTRE OF PATTERN



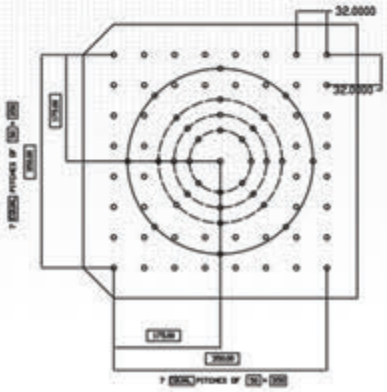
HOLE DETAILS:
83 HOLES - M 8 X 1.25 - Pos Tol - Ø 0.18
30 HOLES - POSITIONED ON GRID AS SHOWN
16 HOLES - EQUISPACED ON 609.6 PCD
8 HOLES - EQUISPACED ON 406.4 PCD
8 HOLES - EQUISPACED ON 304.8 PCD
8 HOLES - EQUISPACED ON 203.2 PCD
8 HOLES - EQUISPACED ON 152.4 PCD
4 HOLES - EQUISPACED ON 101.6 PCD
1 HOLE POSITIONED IN CENTRE OF PATTERN

10 kN Vibration Shaker

- 1000kgf SRV Shaker
- Force : 1000Kgf Sine & Random Force
- Bare Table Acceleration: 100g Pk
- Max. Velocity: 1.8 m/s.
- Max. Displacement: 50.8mm Pk to Pk
- Armature Dia: 240mm
- Slip Table: 450mm x 450mm Square
- Frequency Range: 5 - 3000 Hz
- Armature Resonance: > 2400 Hz
- Slip Table Resonance: > 1650 Hz
- DA10 - 10KVA Amplifier
- 8 channel Vibration Controller
- Sine, RSTD, Sine Notching, sine Dwell
- Random, Random Limiting, Classical Shock, TTH, SRS, SOR, ROR, SOROR, LTH.



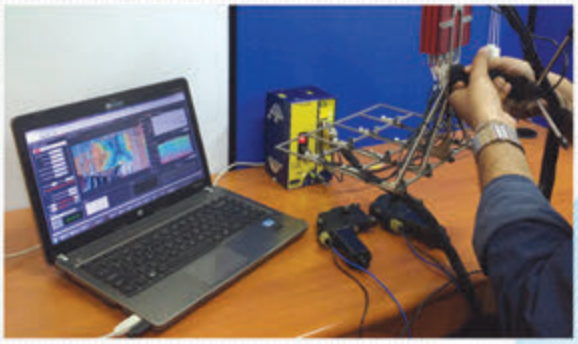
Ø240.0000
HOLE DETAILS:
17 HOLES - M 8 X 1.25 - Pos Tol - Ø0.18
8 HOLES - EQUISPACED ON 203.2 PCD
8 HOLES - EQUISPACED ON 101.6
1 HOLE POSITIONED IN CENTRE OF PATTERN



HOLE DETAILS:
80 HOLES - M 8 X 1.25 - Pos Tol - Ø 0.18
48 HOLES - POSITIONED ON GRID AS SHOWN
8 HOLES - EQUISPACED ON 304.8 PCD
8 HOLES - EQUISPACED ON 203.2 PCD
8 HOLES - EQUISPACED ON 152.4 PCD
8 HOLES - EQUISPACED ON 101.6 PCD
1 HOLE POSITIONED IN CENTRE OF PATTERN

ENGINEERING SERVICES & ANALYSIS

Adams provides Engineering Services to leading Defense, Automotive, Mechanical Industries and ground vehicle companies in troubleshooting and design refinement projects, engineering innovative products and optimizing their development processes. We help customers in design and setting up test facilities by identifying the best system for their specific applications. We have the system capabilities to execute Engineering Services projects onsite and also at our own test facility



Solutions offered

- On site Noise & Vibration measurement & analysis
- On site or off site Experimental Modal Testing and Operational Modal Testing
- Acoustic Testing and analysis, Noise Source Identification
- Vibration (Qualification / Environment tests
- Modifications / Solutions to Noise and Vibration problems
- Calibration of Vibration Sensors
- Leasing of Hardware and sensors

Product & Application

Product & Application SupportAs a system integrator, we assist our customers in choosing the most appropriate configuration for a certain application. We deliver, install and commission the system. Extensive training and seminar programs, including on-site services, help our clients' technical staff to gain and maintain their knowledge of the system and software capabilities for their specific applications. We support our customers with engineers who understand the hardware and software in the related engineering applications. Our hardware services include calibration and maintenance of the systems to optimize the accuracy of the system and to extend its lifetime. We offer a complete portfolio of professional services, including the design of test facilities, full management of a customer's installation, on site training and support, and continuous knowledge transfer. Our products are designed using the latest standards to combine speed of development with long-term maintainability and robustness.

Engineering Services

We offer a unique combination of engineering skills and application know-how to support our customers in optimizing systems for key functional performance attributes, including acoustics, NVH, durability, system dynamics and structural integrity. We enable our customers to analyze and optimize a design's real-life performance from the early concept stage onwards. Throughout the detailed design and engineering phase, our project teams excel at detecting weak spots, identifying root causes, and delivering valuable insight in time to affect design decisions. We quickly diagnose late-stage development problems and develop pragmatic solutions.

Structural Dynamics

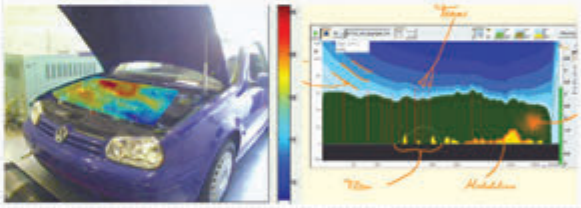
- Modal Testing & Analysis
- Operational Modal Analysis

Acoustic Testing and analysis

- Noise Source Identification
- Near Field Noise Source Identification
- Far Field Noise Source ranking
- Sound Quality Analysis
- Sound Intensity Mapping
- Surface Impedance Measurements
- Sound Pressure Level Measurements
- Octave Analysis
- Sound Power Measurements

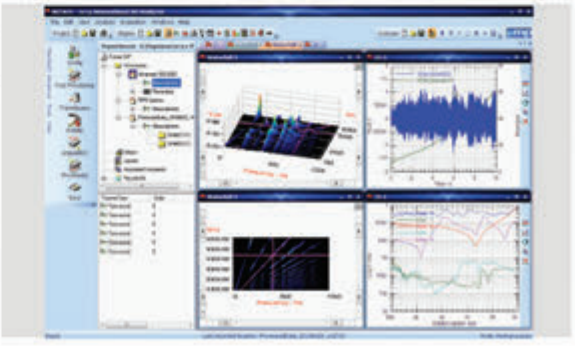
Signature Testing

- Order Tracking
- Fixed Sampling
- Operational Deflection Shape and Time Animation



Modifications / Solutions to Noise and Vibration problems

We offer solutions to help our customer achieve the desired results by identifying the root causes and suggesting modifications. The results are reconfirmed after actual modifications and ensure that the product meets the required Noise and Vibration Levels.



Typical Applications

- General Vibration Measurements
- Natural Frequency Identifications
- Operational Deflection Shapes and Time Animation
- Road Load Data Collection
- Noise Source Identifications
- Rotating Machinery Analysis

ACOUSTICAL TESTING & NOISE SOLUTIONS

Sound Solution for the Future

ECKEL
NOISE CONTROLL TECHNOLOGY, USA

Founded by Oliver Eckel in 1952, Eckel Industries, USA has been at the forefront of acoustical development for nearly sixty five years. Throughout this period of time, Eckel has provided state-of-the-art acoustical test facilities and noise control products for a wide variety of applications.

Throughout the history of our company, Eckel Noise Control Technologies has played an integral role in acoustical design and development. Today, Eckel anechoic chambers, noise control products and audiometric rooms are utilized in a wide array of fields, helping to further benefit technology and the human experience by creating optimal sound environments

Anechoic Chambers

Eckel provides the most advanced design and highest performance anechoic chambers, hemi anechoic chambers, reverberation rooms and SuperSoft free field test chambers.

- Full/Hemi Anechoic Chambers
- Portable Anechoic Chambers
- Supersoft Test Chambers
- Reverberation Rooms
- Acoustical Testing Facilities

Anechoic Chambers are echo-free enclosures with a sound energy absorption level of 99% to 100%, or a reflected sound pressure level of 10% or less. The frequency at which the energy absorption drops below 99%, or the pressure reflection exceeds 10%, is known as the low-frequency cut-off. We design chambers for government, institutional and industrial laboratories and testing facilities; and for industries including automotive, high-tech, energy, telecommunications, consumer products, audio & aircraft/aerospace.

Eckel Reverberation rooms are designed for the determination of noise output of sound sources, transmission loss of partitions, insertion loss of silencers, response characteristics of microphones, and random incidence absorption coefficients of materials.

Acoustic Panels

Eckel's Architectural noise control panel systems are designed to provide effective control of reverberation and background noise in any architectural application from a small classroom or gym to a large coliseum, water treatment facility or industrial plant. Eckoustic Functional Panels are high performance, sound-absorbing, fire resistant panels which can be spot located on walls or ceilings to achieve effective noise control.

Modular Panels and Enclosures

Eckel Eckoustic Modular Panel (EMP) Systems & Enclosures are the ideal solution for reducing and isolating excessive worksite noise. They offer effective long-term solutions to industrial noise problems...providing quieter, more productive and OSHA compliant work areas.

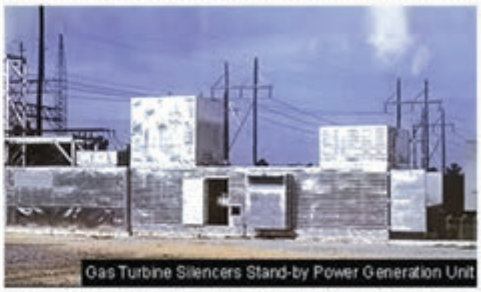
Audiometric Rooms

A room of this type should afford adequate ventilation and lighting so that the subject will be comfortable while his hearing is being evaluated. Not only does the room supply environmental control but it eliminates distraction from changes on the visual horizon which may invalidate an audiogram as readily as acoustical interference.

Applied Solutions

Eckel offers a wide range of standard and custom made studios, newsrooms, translation booths, etc.

- Broadcast Studios
- High Security Facilities
- Custom Ecklosures
- Ekousta-Clear Noise Barrier
- TEC© Damping Sheet


Gas Turbine Silencers Stand-by Power Generation Unit

Engineered Services

Eckel engineers have extensive experience in designing engineered acoustical structures, from specially designed OEM enclosures to sound suppression blast fence at international airports.


Gas Turbine Silencers

LINK ENGINEERING COMPANY, USA

Link Engineering Company is a multinational company dedicated to the design and manufacture of precision test equipment and provider of comprehensive testing services for a wide variety of vehicle components. Headquartered in Plymouth, Michigan (suburb of Detroit), Link maintains offices and test laboratories throughout the world in support of our customers. Link systems are recognized as an industry standard for many test applications.

Link Engineering provides a wide array of test systems for laboratory and vehicle applications with in-house equipment design and manufacturing. Link handles all aspects from fabrication to electrical controls as well as software for machine control, data acquisition, processing and report generation.

- Test System
- Test Service
- Control System
- Stator Lacing Equipment
- Remanufactured Equipment

1620 Compressibility Machine

NVH Commerical Vehicle dyno

3000 Brake Performance Dyno

Test Systems

Some of the test system provided by Link Engineering Company is as mentioned below.

- Brake and Friction
- Wheel and Hub
- Transmission and Driveline
- Electric Motor and Generator
- Spring and Resilient Material
- Steering System

Brake & Friction Test Systems
Friction Characterization Test Systems

- Friction Compressibility Test Stand Chase Friction Material Test System
- Friction Assessment & Screening Test Stand (FAST)
- Friction Shear Machine

Test Stands

- Brake Booster Test Stand
- Caliper Test Stand
- Rotor Mapping Station

Dynamometer

- Performance Dynamometer
- Chassis Dynamometer
- NVH Dynamometer

VMAX

Vehicle System

- Compact Data Acquisition System (DAS)
- Modular Data Acquisition System
- Vehicle Pedal Apply System
- Residual Drag and Disc Thickness — On Vehicle
  - DTV and Residual Drag Stand
  - DTV and Residual Drag Stand — Portable System
  - Portable Residual Drag System
- Portable Roller Brake Tester - Car
- Roller Brake Tester – Commercial Vehicles
  - Portable System
  - In-Ground System

- Commercial Vehicle Brake Diagnostic Tools
  - ABS-Expert
  - Air System-Expert
  - Brake NVH Dyno
  - Brake Performance Dyno
  - NVH Chassis Dyno
  - Transducers and Sensors

4950 NVH
Chassis Dyno

3900 NVH
brake Dyno

Transmission & Driveline Test Systems

- High Speed Automatic Transmission Test System
- SAE No.2 Wet Friction Test Stand
- Manual Clutch Durability Test System
- Transmission Torque Cycling Durability System
- T0-4 Test System
- Four Square Test System
- Electric Motor & Generator Test Systems
- Wheel & Hub Test Systems
- Spring & Resilient Material Test Equipment
- Steering Test Systems
- Test Services
  - Brake and Friction Testing
  - Transmission and Driveline Testing

Link Engineering has implemented its ProLink control and data acquisition software on more than 800 pieces of test equipment around the world.

Pro Link

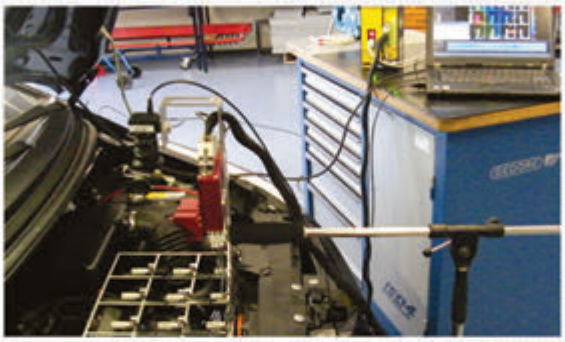
Link Engineering has implemented its ProLink control and data acquisition software on more than 800 pieces of test equipment around the world, growing the installed base of systems at 12% annually. The ProLink real-time control software runs on the Microsoft Windows platform, including the latest Windows 7 operating systems, 32 or 64 bit. Link Engineering has implemented its ProLink control and data acquisition software on more than 800 pieces of test equipment around the world, growing the installed base of systems at 12% annually. The ProLink real-time control software runs on the Microsoft Windows platform, including the latest Windows 7 operating systems, 32 or 64 bit.

Test setup > Procedure > Execution > Data Review > Final Report

THE MICROFLOWN

The Microflown is the worlds first and only MEMS technology based sensor that can measure the acoustic particle velocity. By measuring the temperature difference in the cross section of two extremely thin platinum wires placed in parallel, this extremely fast mass flow sensor is capable of monitoring the movement of air particles. Any sound field is described completely by both the (scalar) value sound pressure and the (vector) value acoustic particle velocity. Understandably, acoustic testing becomes much easier if both acoustic quantities can be measured.

Microflown Technologies



MICROFLOWN RANGE OF SENSORS

PU REGULAR

PU MINI

PT PACKED

U-MINI

USP PROBE

MARKET SOLUTIONS

Microflown Near-field Acoustic camera

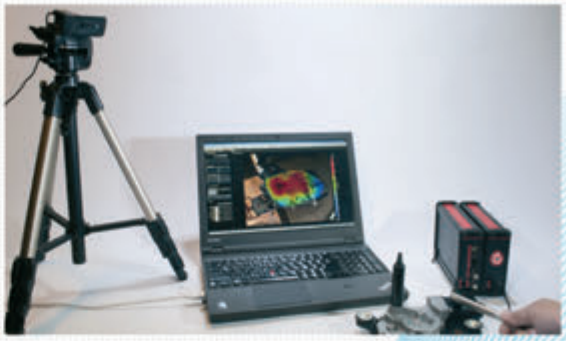
The Microflown Acoustic Camera is a flexible and versatile all-in-one box solution. It allows localization and real-time analysis of non-stationary noises such as squeaks, rattles and clicks. Additional features make the Acoustic Camera software a great solution for your application.

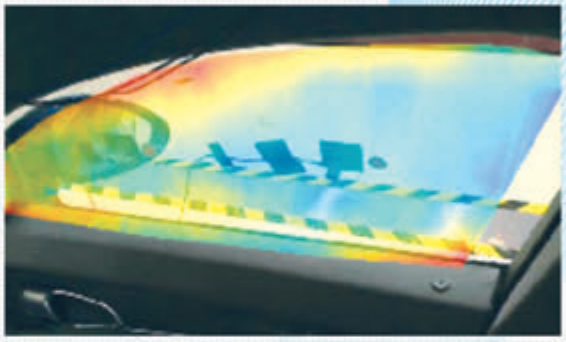
The array is designed to work in near-field and specializes in localizing low frequency noise sources or leaks without spatial and dynamic range constrains.

The newly developed Near-field Acoustic Holography (NAH) processing method doubles the spatial resolution and gives smooth results. A tachless order tracking is also an additional feature of the solution.

Microflown Scan and Paint

The Scan & Paint system is a PU based portable, all-in-one box solution for acoustic measurements. It is a simple and unique tool, which will allow you visualize any stationary sound field in almost any measurement environment, regardless of the background noise level.





Features

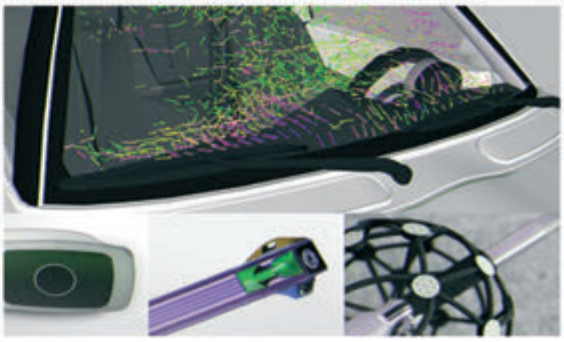
- Mapping of Sound pressure, particle velocity Sound Intensity etc.
- Broad banded 20 Hz to 20kHz
- Very fast method
- Single sensor solution
- Suitable for reverberant environment

Portable Measurement Device - Voyager

- Battery powered
- Internal storage memory
- Preamplifier + Data Acquisition
- Real time listening
- Real time audio filtering
- Record and Analyse
- Embedded analysis software
- Intuitive fully touch controlled
- Use as general Data Acquisition

Microflown Scan and paint 3D

The Scan&Paint 3D is a groundbreaking new portable, all-in-one box solution for acoustic measurements. It is a unique tool for acoustic trouble shooting and sound source localization, allowing you to visualize what you hear. It makes complex problems simple and easy to understand.



Feature

- 3D Mapping of Sound pressure, particle velocity Sound
- Intensity etc.
- Broad banded 20 Hz to 10kHz
- Automatic 3D tracking
- 2D visualization is available for all angles in 3D model.

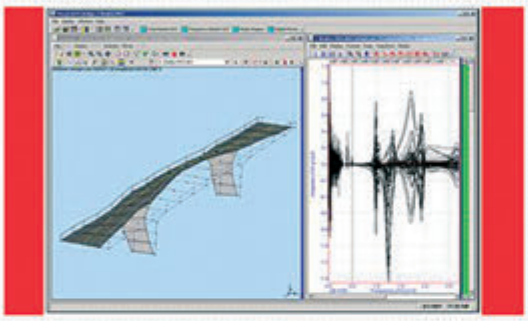
VIBRANT

MEscope is designed to aid engineers and technicians working on vibration and acoustics troubleshooting, new product research and development, predictive maintenance, manufacturing quality control and monitoring of critical machines and structures.

ME'scope VES Packages & Options

Signal Processing

The option contains FFT and Inverse FFT that make it easy to analyze signals and animate ODS's from either time or frequency data. Includes waveform Cut, Copy & Paste, Waveform integration & differentiation and other waveform math functions, Fourier, PSD and FRF with windowing, averaging and overlap process.



Structural Dyanmics modifications SDM

Modal Analysis and Multi-Reference Model Analysis

MIMO Modelling and Simulation:

The option uses MIMO modeling to calculate structural response and multiple responses FRFs.

Modal Analysis and Multi-Reference Model Analysis

estimates modal parameters (frequency, damping & mode shapes by curve fitting a set of FRFs. Includes functions for locating and counting location resonance peaks with SDOF and MDOF methods.

Operating Modal analysis OMA

is applied for the cases where excitation cases cannot be measured and only operating responses can be acquired, modal parameters can be extracted from a set of specially processed cross spectra or ODSs and FRFs.

Structural Dyanmics modifications SDM

option allows you to effects of physical changes to a machine are modeled by adding springs, masses, dampers, bars and solid finite elements to structure a model.

Experimental FEA

option allows you to an experimental 3D structure model and calculates the analytical modes of a structure from its finite element model. It contains a library of finite elements which include springs, masses, dampers, bars and solid elements

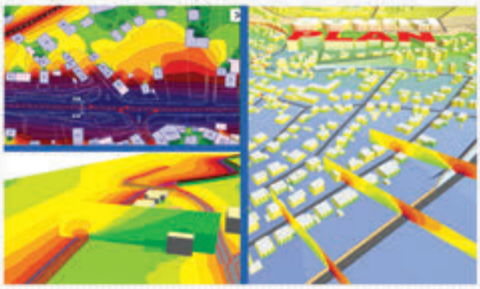
Direct data acquisition

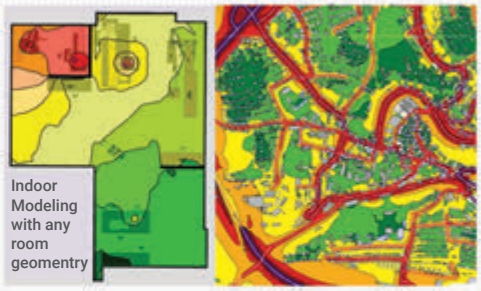
options can directly control and acquire data from a broad range of third party multichannel data acquisition front ends.

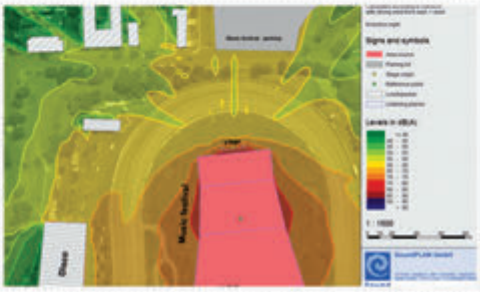
SOUNDPLAN - ACOUSTICS

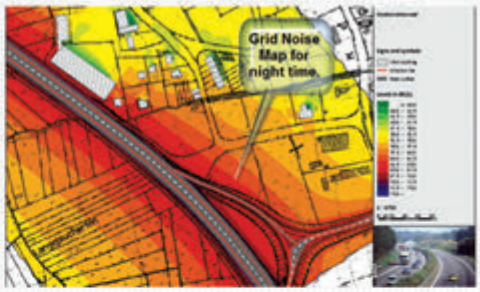
SoundPLAN GmbH in Backnang, Germany is an engineering company with the main focus on noise control, air quality assurance and software development. SoundPLAN International LLC in Shelton, WA, USA acts as the interface between the development office and the more than 30 international distributors that help distribute and maintain the SoundPLAN software on a worldwide basis. Our interdisciplinary team consists of engineers, geographers, physicists and computer science specialists. Our team generates cutting edge engineering solutions which we deliver to the global market in the format of our SoundPLAN software. Our SoundPLAN noise modeling software has maintained the status of the market leader for more than 20 years.

- **The base module:** SoundPLAN Manager, Geographical Database, tabular Documentation, Spreadsheet, basic Graphics, DXF and ASCII Interface
- **The noise modules:** Road Noise, Railway Noise, Industry Noise, Indoor Factory Noise, Aircraft Noise
- **The Graphics:** Grid Noise Map, Grid Cross-sectional Noise Map, Façade Noise Map, Cartography, 3D-Graphics & Animation
- **The tools:** Wall Design, Expert System for Industry Noise, Windows Dimensioning, Distributed Computing, Noise Mapping Toolbox, Building Acoustics Outside, Noise Allotment, ArcView Interface, TNM Interface









SoundPLAN Essential:

SoundPLAN essential is now available in the version 4.0, combining the full strength SoundPLAN calculation core with a simplified data entry editor to offer the noise modeling market a tool that can be learned in minutes yet powerful enough to allow engineers to do most of the noise modeling jobs. If your project is smaller with one industrial facility or some roads/railway lines, then SoundPLAN essential is better suited than a program designed to handle the complexity of noise mapping for an entire country. The data entry facilities are less complex but with the data import interfaces and 2D / 3D solid model viewing and the standard Dynamic Search SoundPLAN calculation core, the program offers enough flexibility and power to build a noise model quickly and get the results print ready in a snap. As the data structures are shared with the full program, the upgrade paths for data and also for the software itself are a possibility in case you do get the gigantic noise modaling job.

Features Include:

- Model any size project
- DXF and GIS import, or digitize on bitmaps
- Calculations consider the Digital Ground Model
- Local noise standards provided
- Easy to use graphical data interface
- Striking grid noise and contour map

Noise Models for:

- Road, Railroads, Parking lots
- Industrial point, line and area sources
- Noise Protection Walls and Berms
- Simulates the noise on top of continuously triangulated Digital Ground Modal (DGM)

NORSONIC

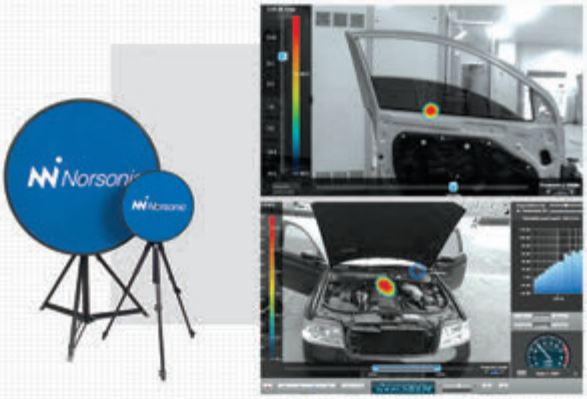
The Nor150 Sound & Vibration Analyzer with Sound Intensity measurement feature

The Nor150 is a multi-tool covering a vast variety of applications such as Environmental Noise assessments, Building acoustics, Sound Intensity, Noise at workplace and more.

- Featuring a large 4.3”
- True colour touchscreen
- Dual channel channels
- Built in web server
- Camera, GPS and voice and text notes
- Sound Power measurement in accordance with ISO9614Microsoft interface platform (WPF).

Nor848 Acousic Camera for Noise source identificaion

- Three array sizes with up to 384 microphones available Real time virtual microphone
- Digital microphones, no extra acquisition unit needed Intuitive software
- Plug and play within 5 minutes



Nor1256: Sound Calibrator

- Conforms to EN/IEC 60942 (2003) Class 1, and ANSI S1.40–2006
- Ultra-stabile silicone reference microphone
- All-digital quartz controlled signal generator
- Fully compensated for static pressure, humidity and temperature
- Sound pressure independent of microphone equivalent volume
- Robust, compact and battery operated.
- 114 and 94dB @ 1000 and 250 Hz
- Built in display
- Measurement of humidity, temperature and static pressure

Nor1256: Sound Calibrator

The Nor850 multi-channel analyser is a simplified complete solution for:

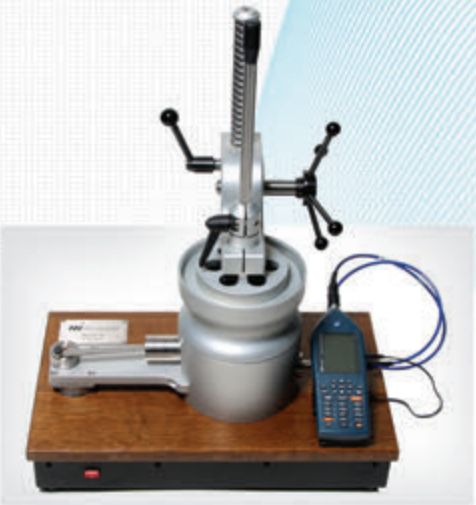
- Sound Power measurements
- Transmission loss measurements
- Reverberation time measurements
- Appliance noise
- Sound intensity

Nor850 software

Nor850 Hardware

Nor1517: Air-flow resistance measurement system

- Fast and accurate measurement and readout of measurement results.
- Accepts test material of various form and size.
- Easy setup and use.
- Large dynamic range of measurement.
- Measures at 2 Hz.
- Standards: ISO 9053/DIN EN 29053 (replaces DIN 52213).
- Measurement range: 10 Pa s/m to 30 000 Pa s/m, up to 200 000 Pa s/m when correcting for non-linearities..
- Airflow resistance: 0,5 cm/s and 0,05 cm/s.
- The piston can be set for 2 different stroke lengths: 28 mm and 2,8 mm.
- Max. diameter of test pieces: 100 mm.



Nor1517: Air-flow resistance measurement system

Hemi- Dodecahedron Speaker

Microphone boom Nor265

Dodecahedron Speaker Nor276

Tapping machine Nor277

Impact ball Nor279

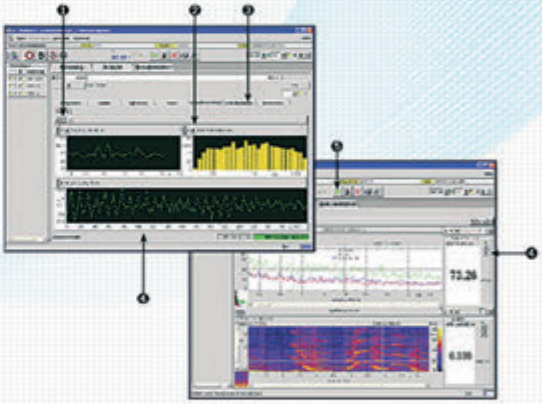
Power amplifier Nor280

SOUNDTEC

Measurement and analysis of sound and vibration - See what you hear... Soundtec develops high-quality measurement systems for acoustics and vibration. Soundtec is the sales company of Akustik Technologie Göttingen. Soundtec employes graduated vibrational physicists as acoustic experts. The systems are Stable, modular and user-friendly software. They use latest technologies of sensors. They have unique analysis- and visualization functions for sound.

- General Noise and Vibration Testing
- Order analysis
- Acceptance of devices according to DIN/ ISO standards (Automotive, domestic appliances)
- Development of vehicles, devices and components (Automotive, shipbuilding and aerospace)
- Complex signal analyses for acoustics experts (test centers and certification laboratories)
- Measurement and analysis tasks for engineering firms

Measurement and analysis of sound of Sound and vibration- See whate you hear. Soundtec develops high quality measurement systems for acoustic and vibration.



si++Workbench- Integrated software for acoustics and vibration test, detailed analysis and handle documentation of data.

Livepad is 4-channel or a 6-channel extremely powerful system for NVH measurement and analysis combined with a tablet PC for portability.

siVision - optically displays what ear perceives and makes it possible to filter disturbance and background separately. Tonal and modulated component are automatically separated from the sound and rated for perceptibility.

siIntense - Integrated measurement of Sound Intensity with classic P-P probe and the new P-U probe.

siSoundpower- Sound power measurement with the sound pressure method.

siBuilding-Measuring system for determining system for determining the Reverberation time and sound insulation for airborne and impact noise.

siTest -Quality testing through acoustic and vibration measurement in production.

siPass-by-Pass-by measurement system according to ISO 362 and ECE R 51

Sitracer - Innovative acoustic camera for Sound source localization with 24 microphones with high dynamic range for detailed analysis.

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