DATS

Measurement, Analysis & Reporting Software

PROSIG

DATS

Turn Your Data Into Insight & Wisdom

DATS is a comprehensive package of data capture, signal processing and reporting tools. It's tools can be used for a wide range of engineering and general signal processing tasks, with particular focus on acoustics and vibration. A core package provides basic functionality and tools and a number of optional packs and add-ons address specific application areas. The intuitive and powerful worksheet environment in DATS allows a user to go beyond the usual test & measure to provide genuine insight. DATS has been continuously refined and updated by Prosig's signal processing experts for over 40 years.

40 years of development

DATS is a reliable, tested and proven analysis solution that has been used to solve real world problems for decades.

Worksheet programming

Easy to understand, yet powerful environment to build custom analysis algorithms and tests.

Flexibility

Some measurement & analysis software tells you what you already know. DATS helps you find what you don't already know.
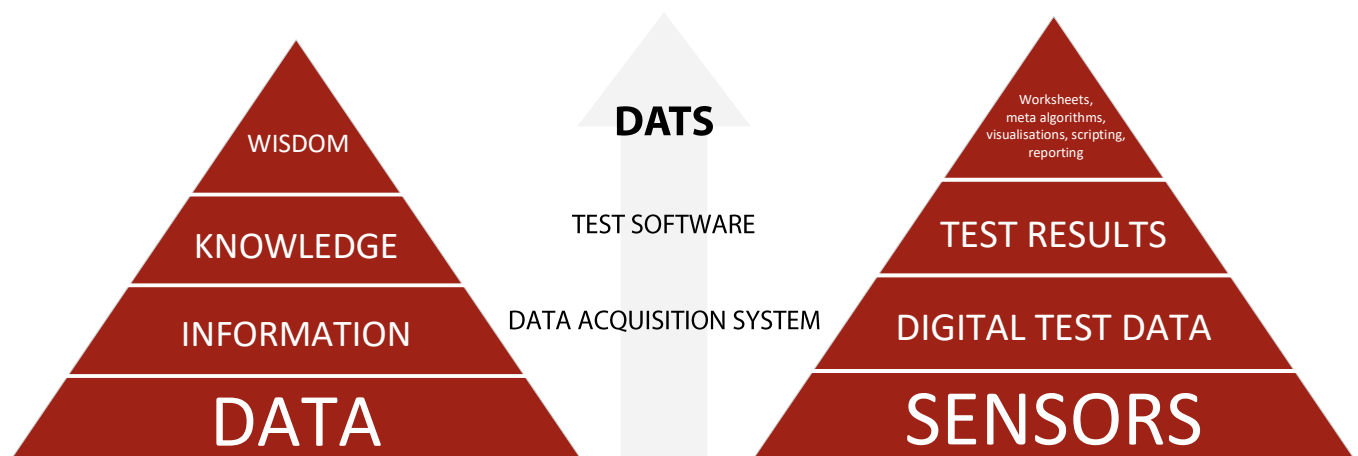
Reports & Automation

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The well-known **Data-Information-Knowledge-Wisdom** framework illustrates how DATS takes you beyond other test & measurement packages.

The **Data** (below left) represents our sensors which gather the data from the test piece. The ADC in data capture hardware converts this to digital **Information**. Running a standard test or analysis sequence leads to **Knowledge**. And this is where many software packages stop.

DATS, with it's worksheets, scripts, flexible analysis algorithms, visualisations and reporting tools helps you find those details that can otherwise be missed. This leads to the true value locked up in your data - **Wisdom**.

WISDOM
KNOWLEDGE
INFORMATION
DATA

DATS
TEST SOFTWARE
DATA ACQUISITION SYSTEM

Worksheets, meta algorithms, visualisations, scripting, reporting
TEST RESULTS
DIGITAL TEST DATA
SENSORS

DATS

From Measurement to Understanding

Integrated Capture Software

The DATS Capture and Acquisition software fully integrates with the DATS package and delivers data directly to the analysis & reporting

Realtime Displays

During tests DATS offers a huge range of displays and visualisations including time series, frequency spectra, numeric displays, waterfalls and more

Vast Range of Analysis Options

The DATS analysis suite has been developed over 40+ years to cover the the entire range of signal processing functions

Drag & Drop Automation

The worksheet environment in DATS is the glue that takes the analysis building blocks and turns your algorithms into reality
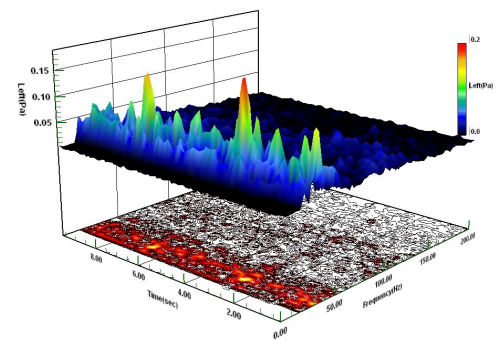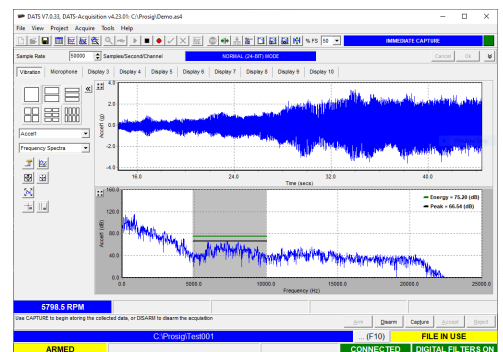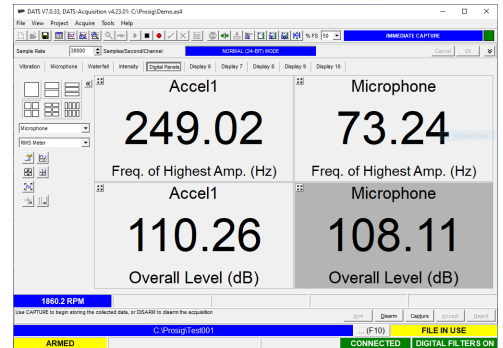
Built-In Reporting

The Intaglio reporting function built in to DATS lets you share your results with your colleagues and customers

Flexible Package Options

For specific applications like Rotating Machinery Studies or Vehicle Refinement, DATS has a suite of add-on packages
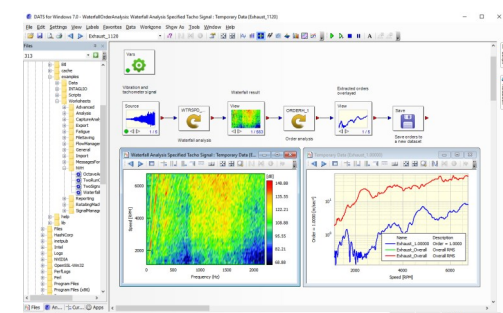
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Measurement, Analysis & Reporting Software

DATS provides a set of tools for the measurement, analysis and reporting of a wide range of data types. The easy-to-use graphical environment allows data to be manipulated, edited and analyzed using a huge selection of analysis algorithms.

DATS-EM includes

- Integrated Data Capture

- Realtime displays

- 2D & 3D Graphs

- Built-in Report Generator

- Worksheet Automation

- Data Arithmetic

- Frequency Spectra

- Time Domain Analysis

- Digital Filtering

- Data Generation & Synthesis

- Maths, Statistics & Calculus

- Data Import & Export

Analysis is a simple task of dragging, dropping & connecting. Or use one of the many ready-made test templates..

DATS makes report preparation quick and easy. And there's no need to copy/paste. All aspects of the graph from curve colors to backgrounds can be changed quickly and simply. Graphs can then be sent straight to the printer using the Quick Report facility or they can be embedded directly in Microsoft Office applications.
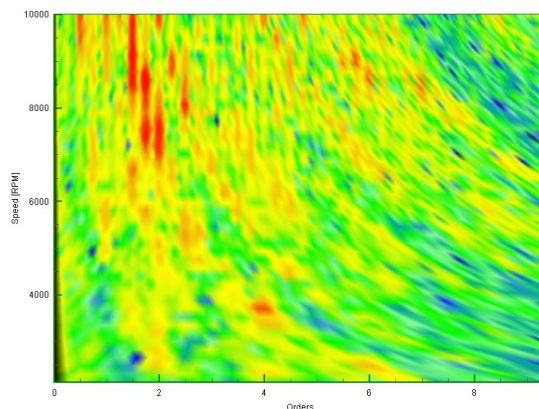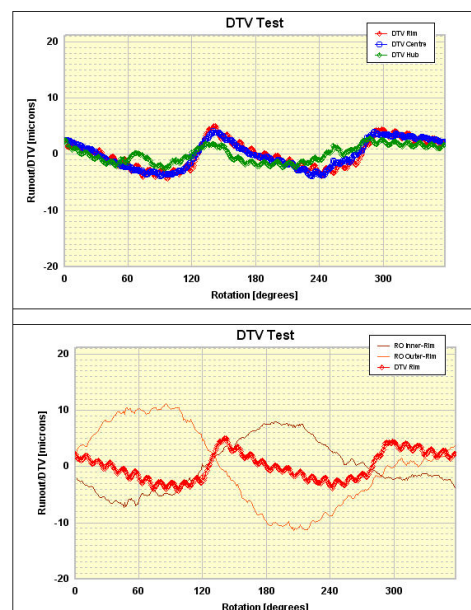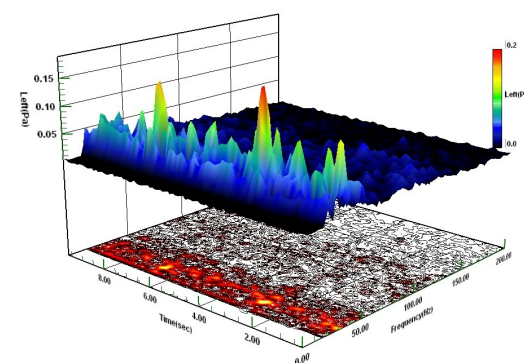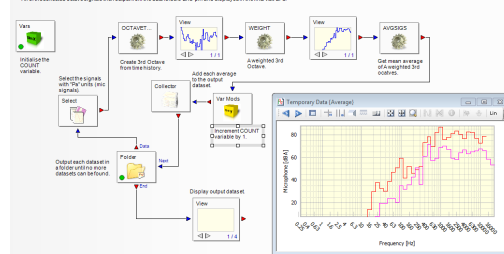
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Configuring a DATS System

Choose the hardware platform

SOLO

TETRAD

HYPER12

Add capture software and basic analysis

DATS-acquisition
Integrated capture software with support for arming, triggering and capturing data using the DATS hardware. Comes with full set of real-time displays.

DATS-analysis
The core analysis software. Contains the worksheet environment, reporting tools and the basic DATS analysis algorithms for time and frequency domain and more.

Choose additional analysis packs

- Advanced Frequency
- Advanced Time Domain
- Advanced Filtering
- Advanced Maths
- Import/Export
- Data Manipulation

Choose application options

- NOISE, VIBRATION & HARSHNESS
- ROTATING MACHINERY ANALYSIS
- HAMMER IMPACT TESTING
- MODAL ANALYSIS
- STRUCTURAL ANIMATION
- ACOUSTIC ANALYSIS
- PSYCHOACOUSTICS
- SOUND MAPPING
- FATIGUE & DURABILITY

DATS

Don't Take Our Word For It...

PROSIG

> " Thanks for getting back to me and following this up. It's the kind of service that makes Prosig such a good company, in my opinion

> " simple...reliable...and well tested in harsh extreme environment.....just go for it ! one will never repent! Its all there what you want as an analyst.

> " I can honestly say that I have never had a system or channel failure over the 8 years that I have been using the Prosig systems

> " The software is really easy to use, the interface is great and it does not crash.

> " Excellent data acquisition and analysis tool for sound and vibration.

> " I used the DATS quick reports the other day, that product keeps amazing me, I always manage to find some way of achieving my goal

> " I can honestly say that I have never had a system or channel failure over the 8 years that I have been using the Prosig systems

> " We do much of our data acquisition outdoors in remote areas so having the real time on line transfer functions is a real bonus - it allows us to check our data as we capture it, thus enabling us to return home knowing we have captured good data without having to do a full data analysis on site.

> " I can honestly say that I have never had a system or channel failure over the 8 years that I have been using the Prosig systems

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