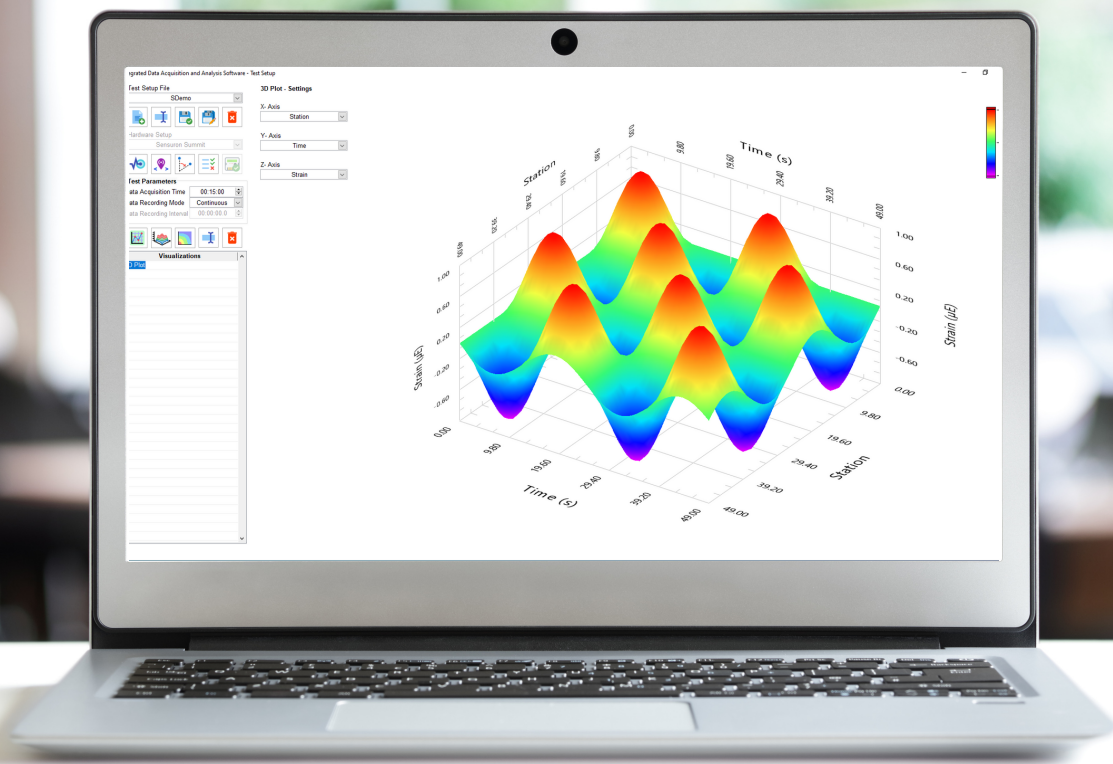


# iDAAS

## Integrated Data Acquisition and Analysis Software

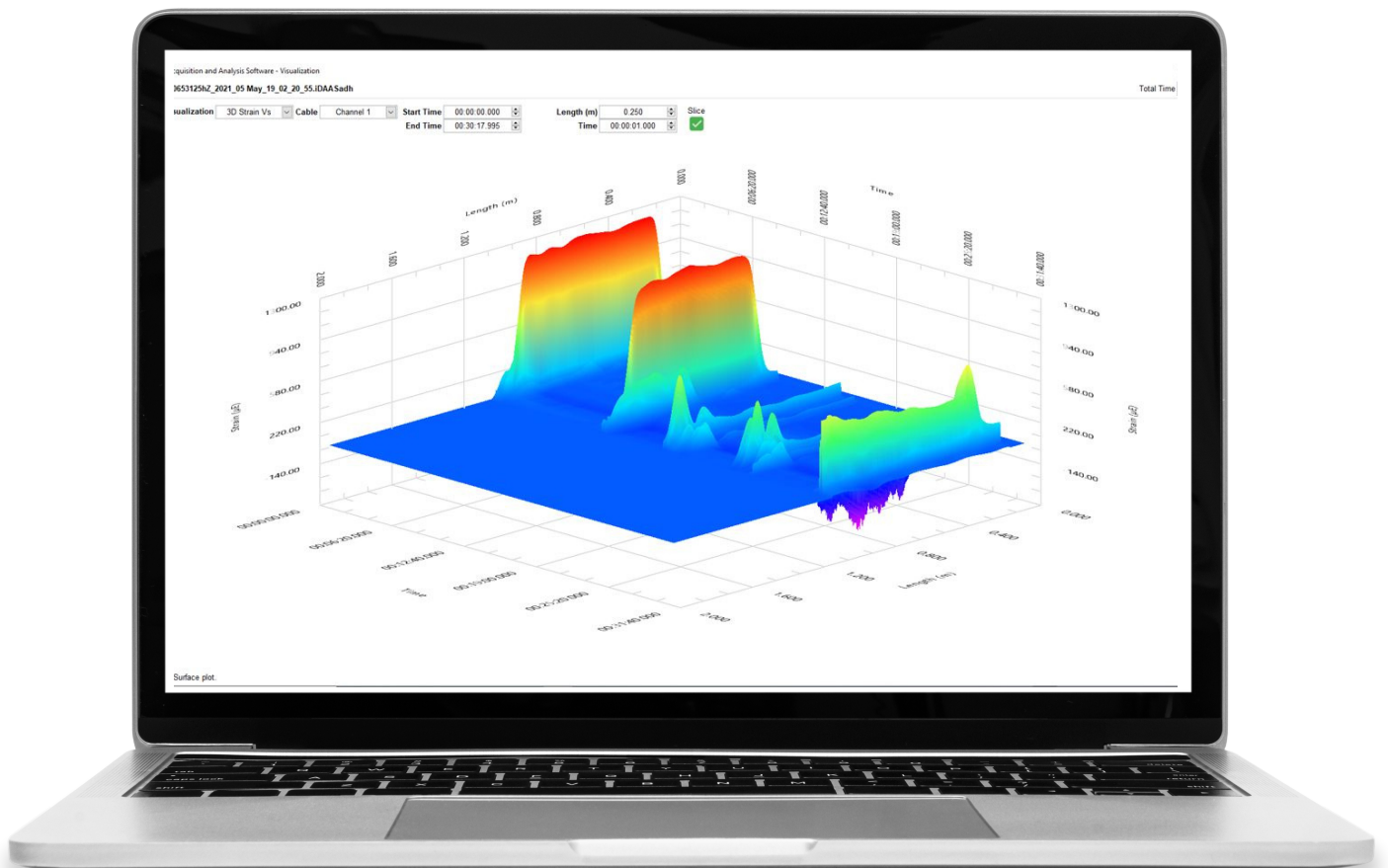


## Sensing made sensible

# iDAAS

**iDAAS is a Windows based, hardware agnostic software, focused on supporting the Distributed Fiber Optic Sensing (DFOS) data cycle:**

**From acquisition, management, analysis, and visualization.**



# Why iDAAS?



01

Seamless, traceable easy data acquisition

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02

Speed up data management by 50% or more

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03

Analyze results in minutes, not hours

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04

Visualize results easy and fast in a single, integrated tool

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05

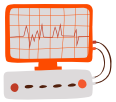
No custom coding or long software development needed



iDAAS helps engineers analyze sensing data in minutes, reduce data management effort by over 50% and easily visualize results in record time.

# Data Acquisition

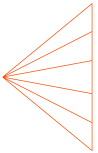
## Seamless, easy, traceable data acquisition



**Quick, easy test setup with live monitors**



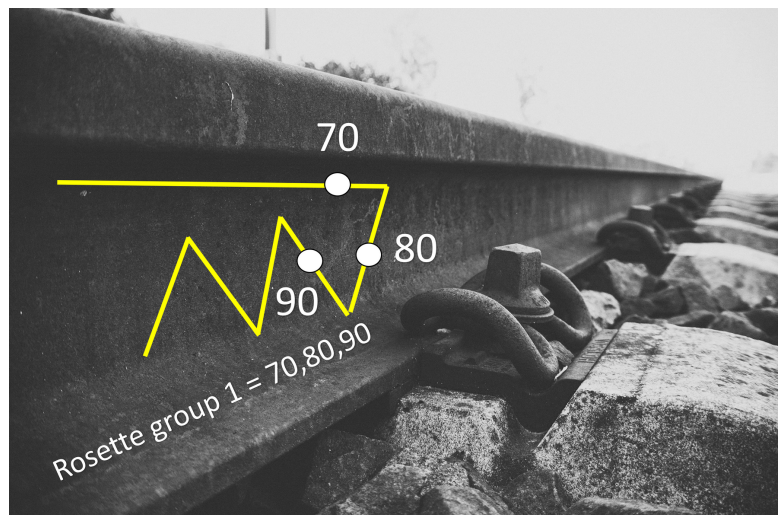
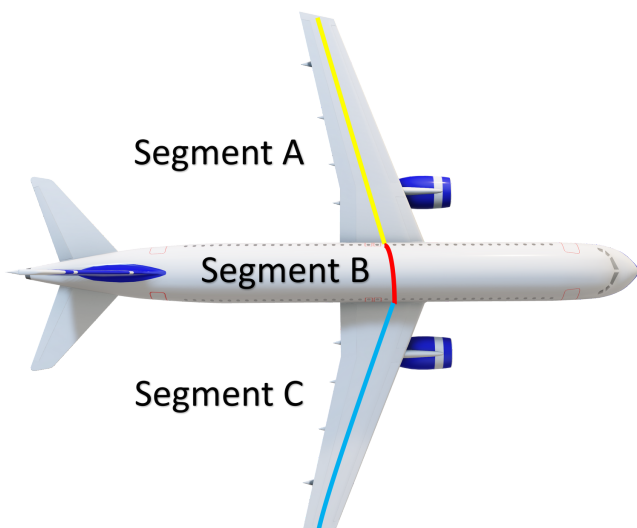
**Connect to different hardware - remote or wired**



**Define cable segments & rosette groups**



**Retrieve/share setup with teams across globe**



# Data Management

Speed up data management by 50% or more



Reads up to 10GB in less than 1 minute



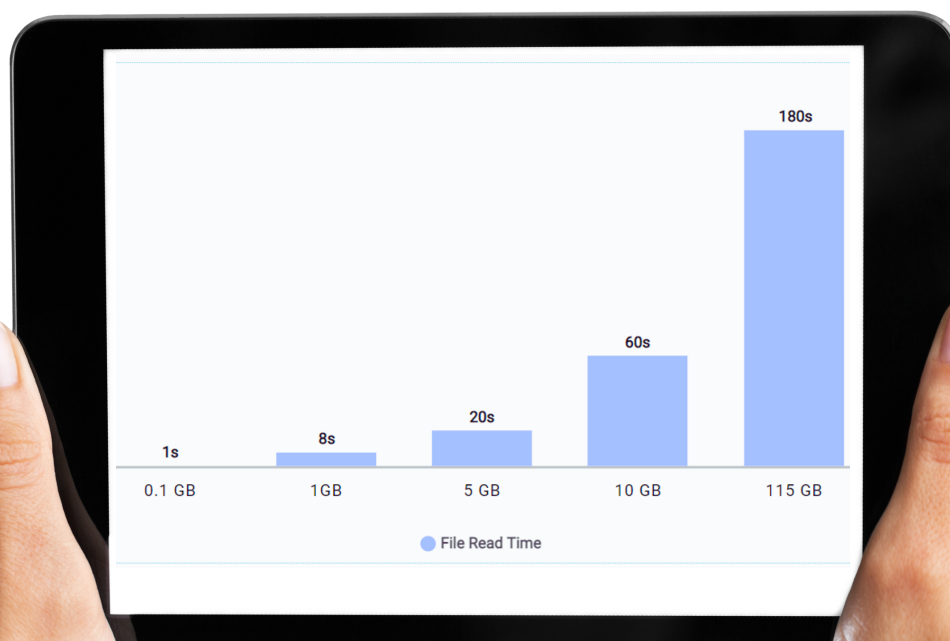
Single interface;  
Single operating system



Easy hardware setup and acquisition



Advanced data structure and file manager



# Data Analysis

Results in minutes, not hours



Principal stress for rosette groups



Change material to check if design fits criteria



Damage using strain-life or stress-life



Shape sensing and temperature analysis



Damage comparison

Data Files Analysis

1 File to enable analysis modules

Acquired Data

- 2020
  - 08 Aug
    - 15
      - Sample 7\_2020\_08.Aug.15.15.28.37
      - Sample 7\_2020\_08.Aug.15.15.28.37.DAT
    - 16
  - 12 Dec
- 2021
  - Duty Cycles

Visualization

Export

Life and Damage

Strain to Stress

Shape Sensing

Temperature Analysis

# Data Visualization

From acquisition to visualization in a single tool



Fully integrated in single tool



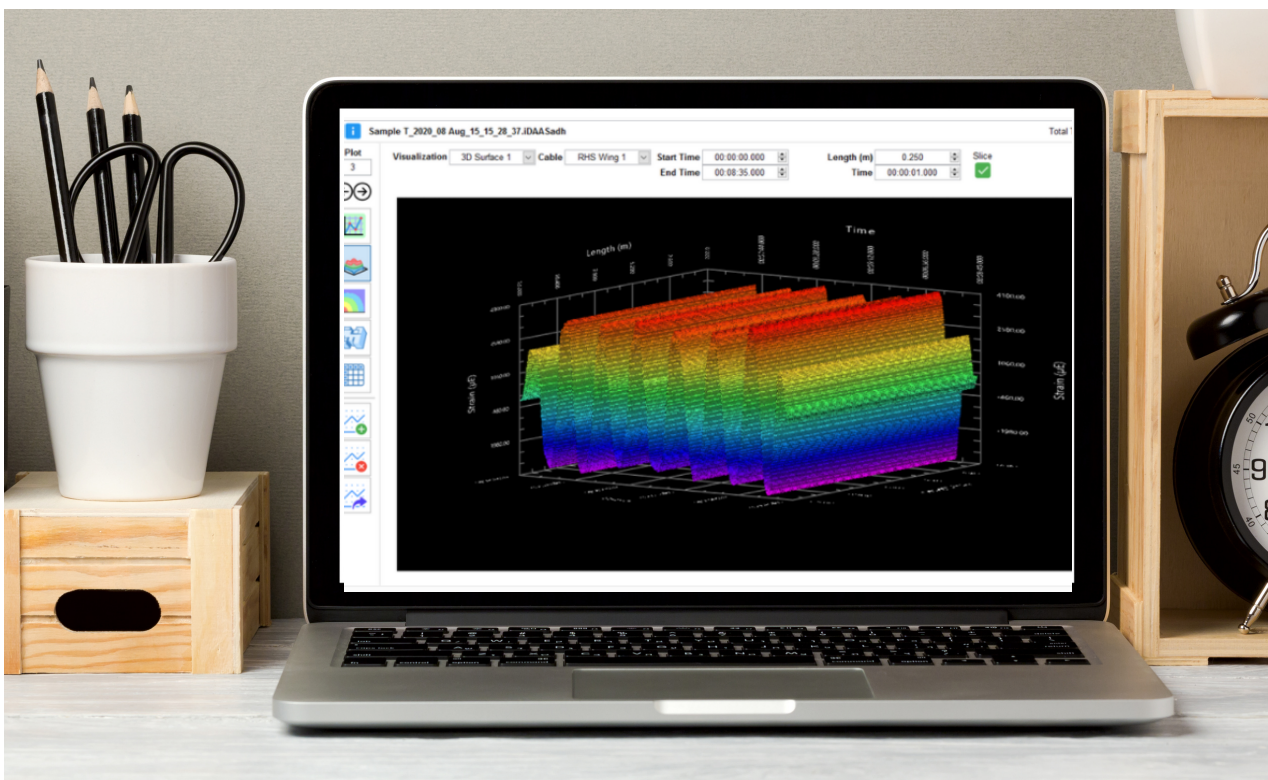
Contour/3D Surface/Mesh/Scatter



Lots of 2D data exploration features



Create high quality reports easily



# From the industry

**"We worked on a similar custom software for the past 18 months. Buying a tool like iDAAS saves us months of development time"**

- Researcher, National Lab



**"In automotive terms, having just DSS hardware without a specialized tool like iDAAS is like buying a Ferrari and driving it at 20 MPH"**

- Engineering Manager, Oil & Gas

**"With iDAAS, we can easily share different visualization to the management to enable their decision-making process. Before, we were just banking on their imagination powers"**

- Test engineer, Aerospace Industry





# Flexible licensing



<b>MODULES</b>	<b>iDAAS Basic</b>	<b>iDAAS Basic + Life</b>	<b>iDAAS Premium</b>
<b>Basic module</b>			
Data acquisition	✓	✓	✓
Real-time data visualization	✓	✓	✓
Post-processing	✓	✓	✓
File management	✓	✓	✓
<b>Analysis module</b>			
Temperature calibrator	✓	✓	✓
Strain to stress	✓	✓	✓
Strain life	✗	✓	✓
Stress life	✗	✓	✓
Stress life (MIL + HDBK)	✗	✓	✓
Material database	✓	✓	✓
Duty cycle creator	✗	✓	✓
Damage comparison	✗	✓	✓
Shape sensing	✗	✗	✓

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SIMAT Technologies provides software solutions for distributed fiber optic sensing for a wide variety of industries and applications.



**SIMAT Technologies**