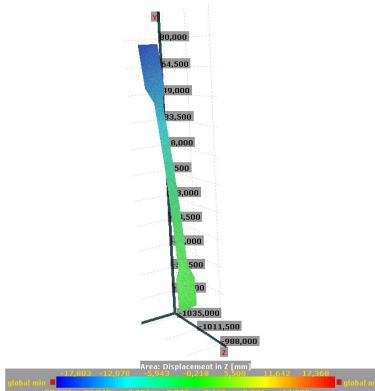


## The AMEE Vibrography testing set powered by Chronos cameras

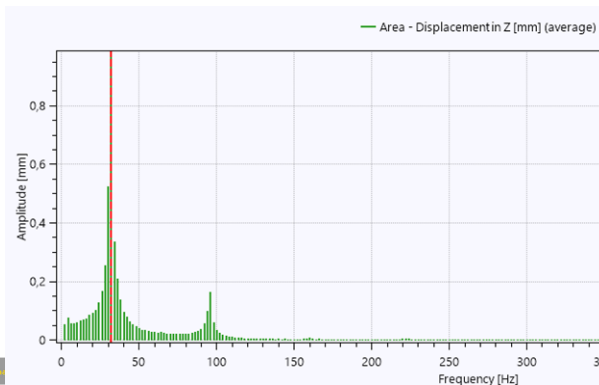
The AMEE Vibrography system offers comprehensive tools for analyzing vibrations, providing advanced capabilities in displacement and strain mapping as well as modal and operational deflection shape (ODS) analysis. Utilizing Mercury RT® software, the system applies Digital Image Correlation (DIC) algorithms to track speckle patterns, ensuring sub-pixel accuracy in calculating displacement, strain, and deformation. Designed for frequency domain analysis, AMEE Vibrography is essential for vibro-diagnostic measurements, allowing for precise assessment of dynamic behavior in structures and components.

### Key Features:

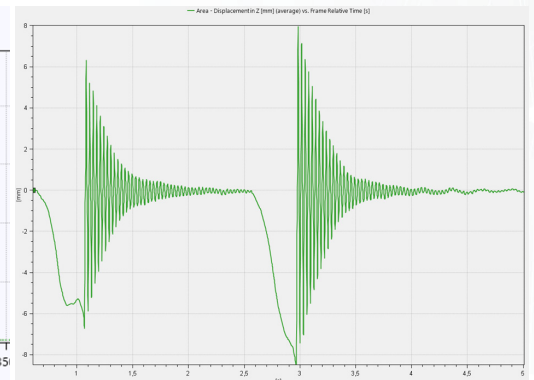
- Frequency Domain Analysis
- High-Speed Camera Integration
- Quantitative data in CSV/HDF5 format and 3D animations



3D graph



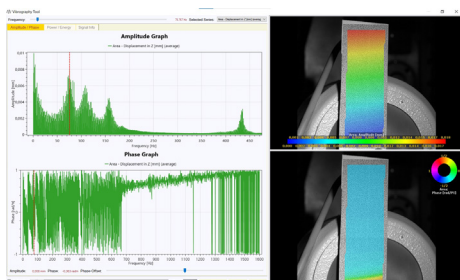
Vibration Amplitude graph



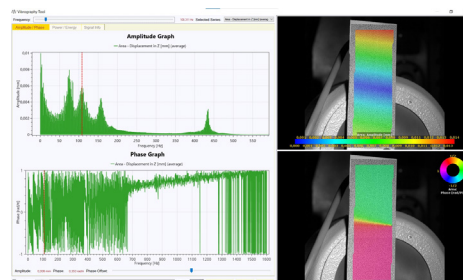
Vibration displacement

### Advanced functionalities in Vibrography:

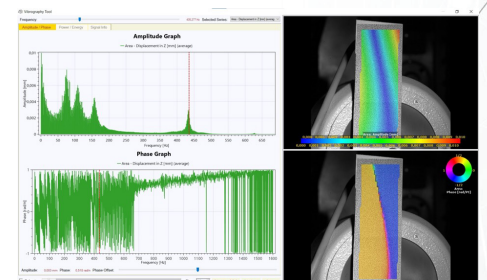
- FFT Analysis
- Octave Analysis
- Amplitude and Phase Graphs
- Power/Energy Spectral Density Graphs
- Campbell Diagrams
- Key metrics: Analyze values such as Minimum, Maximum, Peak, Peak to Peak, Effective Value, and Crest Factor for in-depth insights.
- Computation method of frequency analysis: Singular Spectrum method or Welch's method. Window functions are Hanning window, rectangular window, etc.



ODS at 75.767 Hz



ODS at 108.311 Hz



ODS 435,277 Hz

Provide us with the type of measurement and the required test result, and we will prepare a complete set for you.

**FULL SET INCLUDES:**

- Mercury RT 3D Software with additional modules required for your specific applications.
- Stereo High-Speed Camera Pair: Multiple cameras based on your testing needs, offering high resolution and frame rates.
- Lenses for detailed 3D analysis of deformation and displacement.
- Lighting System: Adjustable blue lights with tripod mounts for ideal illumination
- Tripod for flexible camera and lighting setup.
- Cables connecting hardware and your PC.
- Transport Case



Camera type	Resolution	FPS	Record time	Memory	Warranty
Chronos 1.4 BW	1 280 x 1 024	1 069	16.33 s	32 GB	2 years
	320 x 96	40 413	17.7 s		
Chronos 2.1 BW	1 920 x 1 080	1 000	11.02 s	32 GB	
	640 x 96	24 046	15.49 s		
Chronos 4K12 BW	4 096 x 2 160	1 397	11 s	128 GB	
	128 x 32	29 002			

**Vibrography project example:**

