

## Technical data and Details

- Image sources:
- industrial camera (CCD, CMOS)
  - high-speed camera
  - scanning electron microscope (SEM)
  - atomic-force-microscope (AFM)
  - laser scanning microscope (LSM)
  - x-ray computed tomography (CT)

Supported image formats: all standard image formats  
(\* .bmp, \* .tiff, \* .png, \* .jpg)

- Analyses:
- displacement fields
  - local strain fields (normal, technical, principal and true strain)
  - mean (global) strain (horizontal and vertical)
  - bending lines
  - pathways (trajectories)
  - local speed and acceleration

Export formats: text file, excel, image sequences, video (WMV), chart

- System-requirements:
- standard PC with Windows 7/8.1/10 (x64)
  - Intel Core I5 processor or equivalent
  - Nvidia GeForce GTX 750 or equivalent
  - 8GB RAM



# VEDDAC 7



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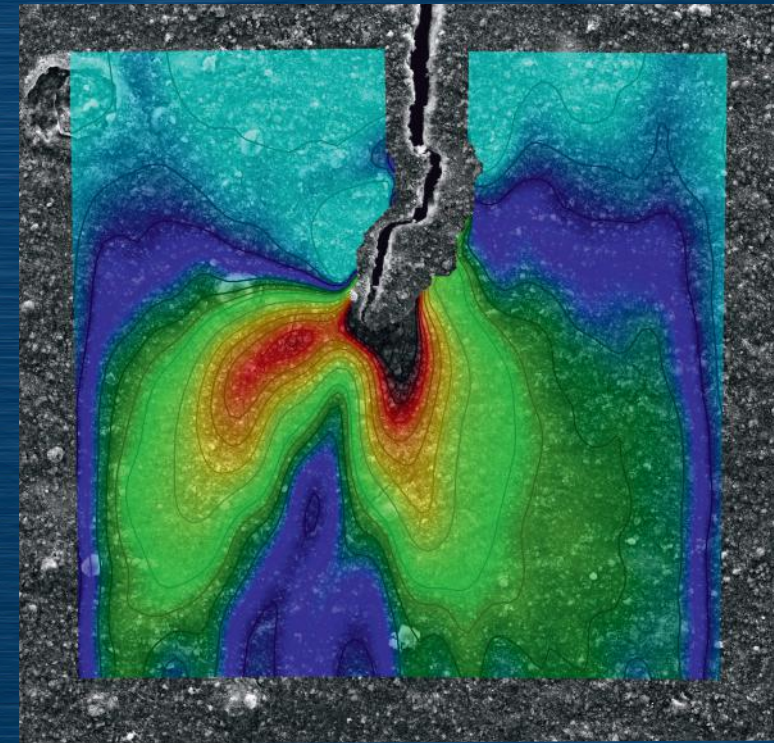
email: [microDAC@cwm-chemnitz.de](mailto:microDAC@cwm-chemnitz.de)

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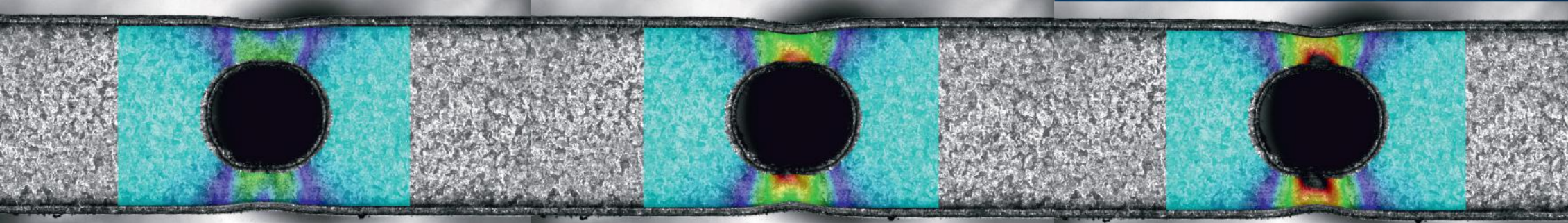
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# VEDDAC 7



Software for  
image processing supported analysis of  
motions | deformations | strains



## Professional measuring software for motion and strain analysis

VEDDAC 7 is an universal and flexible software for the analysis of motions, deformations and surface changes based on digital image correlation (DIC). With VEDDAC 7, measuring tasks and challenges in research, production and monitoring can be solved with highest accuracy and reliability.

VEDDAC 7 allows highly accurate and reliable 2D and 3D surface image analysis of motions, deformations and changes of object surfaces. VEDDAC 7 is based on the previous version VEDDAC 6 and has been enhanced with a number of new features. VEDDAC 7 offers the user a time-effective image evaluation with its modern, user-friendly and intuitive program interface.

### Universal and flexible

Whatever image acquisition technology you use, with VEDDAC 7 you can comfortably process even large image sequences. This allows you to analyze your processes, even if the surface structure changes significantly during a deformation process. Surface preparation is usually not required for image analysis with VEDDAC 7.

## Contents and Innovations

### Intelligent analysis technology

VEDDAC 7 provides a new and intelligent patented analysis technology, which offers a demonstrably better evaluation quality, especially if the analyzed images show low contrasts or a poor surface structure. This makes VEDDAC 7 the preferred evaluation tool for scanning electron microscopy and X-ray tomography images.

### Extensive visualization and export options

VEDDAC 7 offers a variety of visualization options for illustrating the results of your image sequence evaluation. You can visualize displacement fields, local strain fields, mean strains, bending lines, local velocities and accelerations or displacement curves in VEDDAC 7 as a result image, video or in a diagram. With the new diagram function in VEDDAC 7 you can follow your measured values in the diagram assigned to the result image. The import of customer-specific data (e.g. force, temperature,...) for representation in the diagram is possible.

Extensive export functionality allows you to use the results in external programs. The export is available as text/excel file, image sequence, data diagram or as video.

## Fields of application

### Use VEDDAC 7 in various areas:

- research and development,
- materials sciences,
- microelectronics,
- microsystems technology,
- the automotive industry,
- of the geosciences,
- mechanical and plant engineering,
- power engineering,
- construction and transport, etc.

