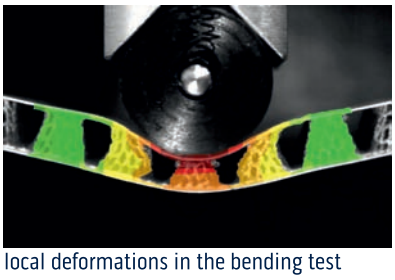
VEDDAC 6

measuring software for motion and strain analysis

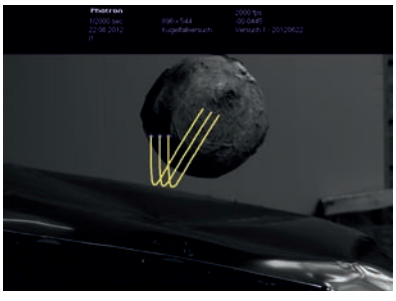
DIGITAL IMAGE CORRELATION USING microDAC®



local deformations in the bending test

VEDDAC 6 is the software solution for 2D image analysis of motions, deformations and surface changes. Especially, in-plane displacements and local strain fields on object surfaces can be determined. With this technique, measurement problems and challenges in laboratory, production and monitoring can be solved with highest accuracy and reliability.

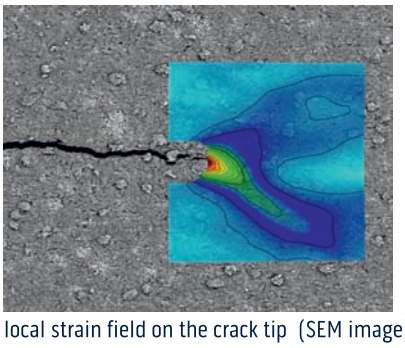
UNIVERSAL AND FLEXIBLE



motion lines (highspeed impact test)

Whatever image capture technology you use - VEDDAC 6 can handle even large image sequences comfortable. Especially you can analyze your processes, even if the surface structure during deformation process varies greatly. Applications of VEDDAC 6 can be seen in the field of diverse areas of research and development, materials science, microelectronics and microsystems technology, automotive engineering, geosciences, mechanical and plant engineering, power engineering and in the construction and transportation industry.

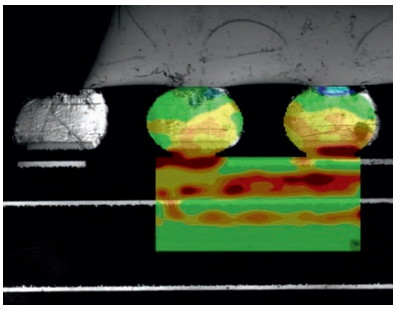
INTELLIGENT TECHNOLOGY OF ANALYSIS



local strain field on the crack tip (SEM image)

VEDDAC 6 has a high-quality and intelligent analysis technology, which provides highly accurate measuring results, especially when the analyzed images have low contrast or the specimen possesses a poor surface structure. This predestines VEDDAC 6 as the preferred evaluation tool for scanning electron microscopy (SEM) image acquisition.

MANIFOLD OPTIONS FOR EXPORT AND VISUALIZATION



local thermal strains on the cross section of a micro device

VEDDAC 6 offers a wide variety of visualization options for displaying the results of your image sequence analysis. An extensive export functionality allows you to use the results in external programs. So you can export displacement fields, local strain fields, with medium strains, bending lines or motion lines and processed according to your requirements, for example for determination of material parameters.

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TECHNICAL DATA

image sources:	› CCD camera › Highspeed camera › Scanning electron microscope (SEM) › Atomic force microscope (AFM) › Laser scanning microscope (LSM) › X-ray computer tomography (CT)
image type:	› Bitmap (*.bmp, 8bit grey scale)
analyses/results:	› displacement fields › local strain fields › average expansions (horizontal and vertical) › bending lines › motion lines (trajectories)
multi processor system:	› yes (depending on the used PC)
export files:	› text files (.*txt) › Microsoft Excel files (.*xls)
operating system:	› Windows 10 › Windows 7

VEDDAC ANIMATION

VEDDAC animation is a software tool for creating, processing and presentation of image sequences (video, single image sequences) and can be used as a batch tool for image conversion.
VEDDAC animation is included in the software package VEDDAC 6.

OUR SERVICES

We offer the evaluation of your images with VEDDAC 6 as a service and we are glad to assist you with the interpretation and evaluation of your results as your professional partner.

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