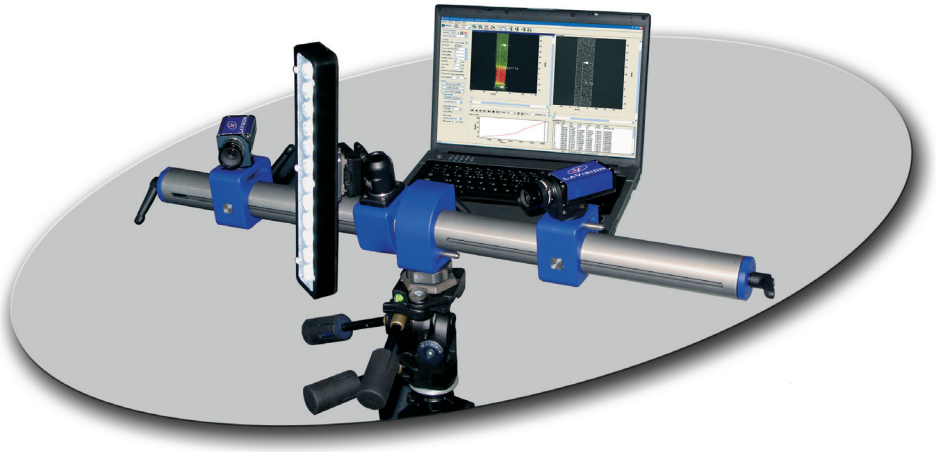
LaVision

We count on Photons

StrainMaster Portable

a new, compact system for shape, deformation and strain analysis

Digital Image Correlation (DIC) is rapidly becoming a standard non-intrusive instrument for materials testing. LaVision's **StrainMaster Portable** is a compact and lightweight turnkey 2D and 3D DIC system for shape, deformation and strain measurement.
Suitable for a huge range of applications where flexibility and portability is essential, LaVision's **StrainMaster** system is appropriate for a wide range of subject sizes.
The **StrainMaster Portable** software is comprehensive, accurate, fast, and very user friendly. Comprising state of the art laptop computer, highly sensitive Imager E-Lite cameras, and cold illumination system, this device is dedicated to the study and analysis of material behaviour.



Applications:

- fundamental materials analysis
- investigation of component behaviour under loading
- identification of strain hot spots on structures
- polymers and composite subjects
- flexible and woven materials
- biomedical studies of tissues and synthetic devices
- automotive engineering materials including engine parts and body panels
- deflection and testing of aerospace parts

Features :

- high accuracy measurements of deformation and strain
- sensitive Imager E-Lite cameras combined with quality lenses
- ultra-rigid and lightweight mounting system
- dedicated laptop computer controlling image acquisition, processing, and project management
- highly efficient pulsed illumination system
- fast and user friendly calculations
- fixed frequency, manual trigger, and phase locked acquisition modes
- virtual strain gauge mode

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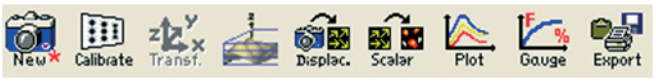
The new **StrainMaster Portable** system comes with software that guides the user through his experiment step by step. Rapid 3D calculations are possible via the intuitive surface height and displacement calculation.



Software:

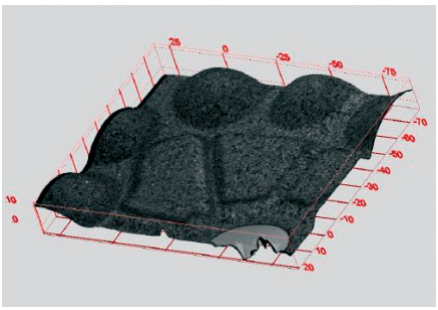
- live focus check and dynamic range indication
- high accuracy measurements of deformation and strain
- user friendly interface with StrainMaster wizard guides
- full project management
- data quality and accuracy guide tool

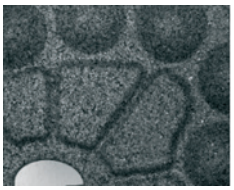
Hardware:

- laptop computer
- Imager E-Lite cameras (2 or 5 MPix, GigE)
- rigid and lightweight mounting system
- compact electronics housings
- dedicated flight cases

Options:

- Analogue to Digital Converter
- special lighting including ring lights





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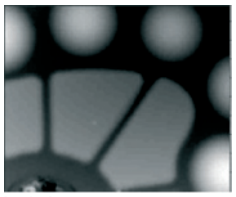

height

With vast experience in the area of scientific imaging systems and Digital Imaging Correlation (DIC), LaVision provide the ultimate in quality and performance for your materials measurements needs. Comprehensive service and support is given throughout the life of the product via our international network of trained engineers.
Please contact us today to discuss your materials analysis requirements to see how LaVision can help you.

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