Advanced full-field Displacement and Strain Analysis
Digital 3D Image Correlation System Q-400

Applications
• Component and Material testing (Displacements, Strains, Young’s Modulus, Poisson Ratio, Elastic-Plastic Behaviour...)
• FEA validation
• Failure investigation
• Fracture mechanics
• High speed measurements & Vibration analysis (Dynamic applications, transient events)
• All shapes
• Advanced materials (CFRP, wood, fiber injected PE, metal foam, rubber...)

Features
• Real-time correlation
• Multi camera system
• In-field handheld solution
• Extended export and import options
• 3D display of measured values
• Fast and easy automated calibration procedure
• Online feedback of accuracy and quality
• Programmable triggering functions
• Different coordinate systems

Q-400 - 3D Deformation Measurement on almost any material or contour - non-contact and true full-field.
User-friendly System
The software offers convenient data handling in a very intuitive way, reliable evaluation and extensive post-processing and analysis capabilities (e.g. determination and visualisation of principal strain).

The unique HiLis light source is a standard part of the system and provides cold and homogeneous illumination for the most accurate measurements. An easy calibration procedure reduces measurement time.

Multi Camera System
An simple extension of the Q-400 is from a 2 Camera to a 3 Camera system, increasing the field of measurement, improving the results on curved objects and increasing the accuracy. The multi camera system supports any number of cameras.

Real-time Correlation and Analog Output
The Q-400 is capable of evaluating data in real-time and the results can be exported as an analog voltage signal.

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Handheld DIC for point and shoot measurement
The handheld Q-480 is designed for industrial use on large structures with multiple areas of interest. No calibration or setup is needed. Data from many measurement locations are required on each loading step.

The system is repositioned using a novel hardware and software repositioning solution. The results can be instantly seen using the real-time functionality.

Additional information
For additional information please contact your Dantec Dynamics representative.

The specifications in this document are subject to change without notice.

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360° Measurement of a cylindrical object.