



## △ Optical Strain and 3D Deformation System

### ARAMIS Optical Strain

Trillion Quality Systems ARAMIS Optical Strain Gage is a non-contact and material-independent measuring system providing critical data such as full-field optical strain, 3D displacement, and vibration analysis with ease. ARAMIS is a clear alternative for foil gages and extensometers while being 10x cheaper than a traditional mechanical gage, 50x less labor/time, and providing 100x more data. With countless applications from FEA validation, material/structural testing/SHM and high-speed measurements, ARAMIS Optical Strain Gage is being utilized for a wide range of industries from Automotive, Aerospace, Biomechanics, and much more, making it the first tool of choice when it comes to material and structural testing. What makes ARAMIS Optical Strain Gage so capable? At its core is 3D Digital Image Correlation (3D-DIC), a non-contact measuring technique based on advanced image processing, yet for accurate than mechanical gages. DIC is capable of mapping 3D coordinates and evaluating displacement and strain maps on the surface of measured samples. DIC uses a stochastic pattern and/or point markers to track the surface of the materials with subpixel accuracy or microns of motion.

Learn more about our turnkey systems at: [trillion.com](http://trillion.com)