

A Better Way to Measure Displacement and Strain

Sponsored by



This edition is sponsored by [Trilion Quality Systems](#).



HEADLINES

You're Invited to our [FREE Trilion 3D Optical Metrology Workshop and Webinar!](#)

A Better Way to measure with [ARAMIS](#), [PONTOS](#), [ARGUS](#) & [TRITOP](#)

[ARAMIS helps Adidas design the Ultra Boost – ARAMIS Proven](#)

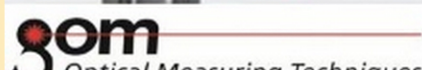
[Aerospace Testing Webinar](#)

[Biomechanics Application Examples](#)

3D Optical Metrology Workshops

Seattle, March 12, 2015

Houston, March 19, 2015



You're Invited to our [FREE Trilion 3D Optical Metrology Workshop and Webinar!](#)

Our 3D Optical Metrology workshops are the perfect events for those interested in improving lean design and lean manufacturing, with advanced measurements of 3D shape, deformations and true strain.

March 2015 join us in Seattle & Houston 3D Optical Metrology Workshops.

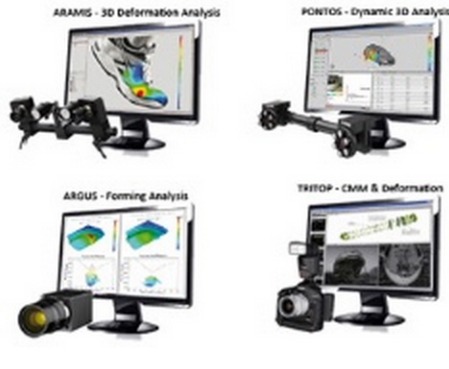
Please join us for a day of speakers who are experts in their fields, as well as unique demonstrations of our equipment, including new and often overlooked capabilities. There will be opportunities to discuss your applications and solutions using 3D Optical Metrology. You may even bring along a specimen to have tested.

Come get to know us and discover how our 3D technology and experience can maximize your research, and production! Breakfast and lunch will be served, and trivia prizes will be won, so register now to reserve your place! Space is limited.

[Click Here to Register Now! »](#)

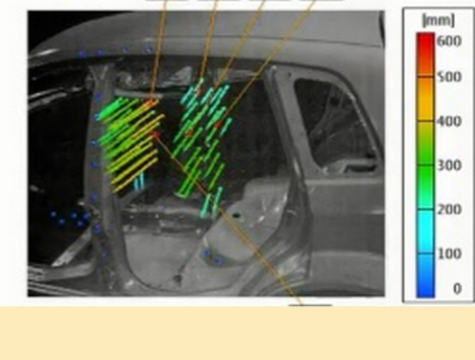
NEWS

[A Better Way to measure with ARAMIS, PONTOS, ARGUS & TRITOP](#)



Trilion Quality Systems has the right solutions for countless types of measurements. Measure 3D Deformation and Strain with ARAMIS DIC, the best way to measure any material or structure. Use ARGUS for Forming Analysis. Full-field Dynamic 3D Motion Analysis with PONTOS, 6-DOF, velocity and accelerations. Static CMM and Deformation Tests with TRITOP Photogrammetry.

[Read on to discover more solutions using optical Metrology! »](#)

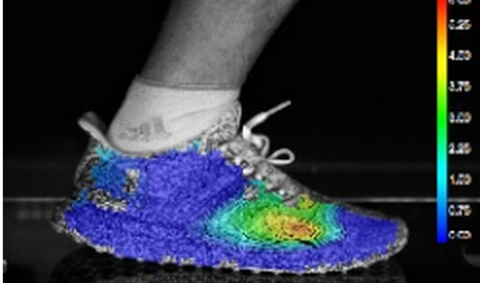


Automotive Testing Webinar – February 10, 2015 at 12 pm ET (6 pm European Time)

Our Automotive Testing webinar will review applications for Optical 3D Deformation and Strain measurements ... a Better way to Measure, and the best way to validate FEA. The product development in the automotive sector today is driven by shorter development cycles and the reduction of costs to be competitive on the markets. Discover how optical metrology can get you there! Allowing you to better understand your materials and structures. Learn about automotive applications in the areas of stiffness, NVH and crash testing, motion analysis and the evaluation of thermal deformation of components tested in climate chambers. Testing procedures such as: Thermal or mechanical deformation behavior, Vibration and noise response, Creep and aging processes, and Crash behavior are discussed.

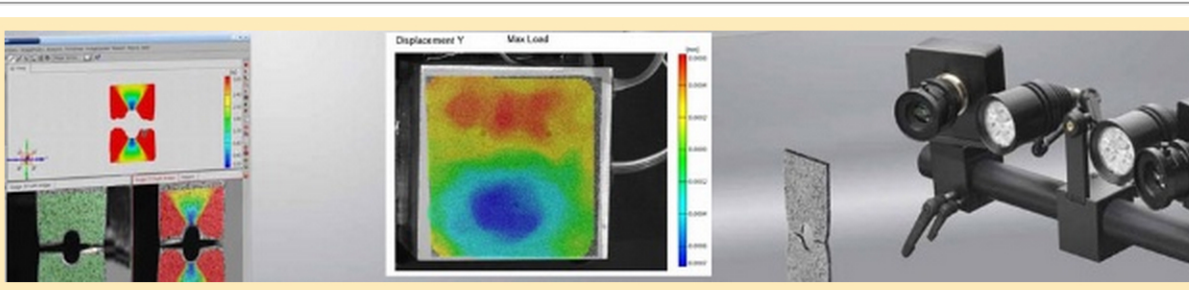
[Click Here to Register Now! »](#)

[ARAMIS helps Adidas design the Ultra Boost – ARAMIS Proven](#)



It is official! Adidas has joined the ARAMIS revolution and used full-field optical measurements to understand the physics and design a shoe from the ground up. They have utilized the ARAMIS to understand the athlete's foot, advanced material properties, and the performance of the designs. The same way engineers are using it to design better cars and airplanes. First they focus on understanding the microstructure, and then build towards the macrostructure, and finally...

[Continue reading »](#)

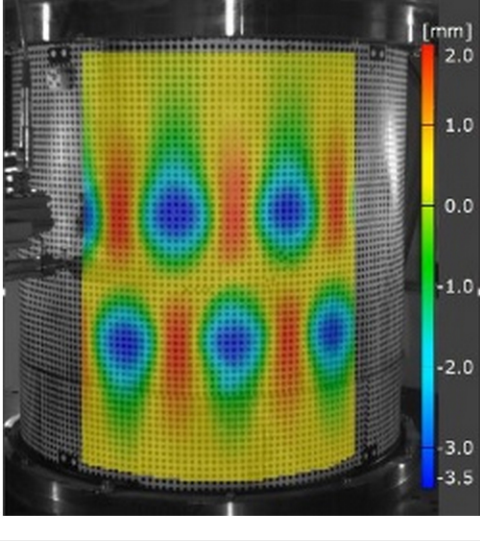


How Do We Measure With Cameras?

How do we accurately measure 3D displacements and surface strains with a single camera or pair of cameras? What are the key features and benefits of doing this? For example, ARAMIS produces experimental results that directly compare with finite element analysis.

[Click here to download the presentation! »](#)

[Aerospace Testing Webinar](#)



Aerospace Testing Webinar discusses advanced applications in the aerospace industry using ARAMIS and PONTOS, covering topics from smaller scale measurements, such as materials and element testing, up to evaluation of large structural deformation, strain and vibration behaviors.

[Click Here to Download the Recorded Webinar! »](#)

ARAMIS & PONTOS

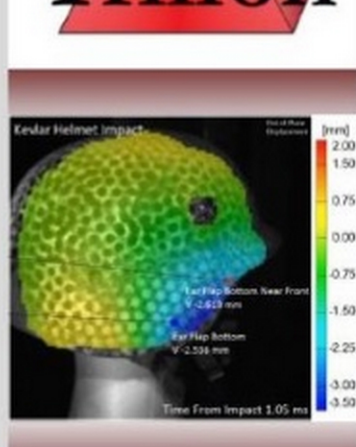
For High Speed Measurements

SA-X2 NOW AVAILABLE TO RENT OR OWN

Trilion provides a complete, turnkey solution for your high speed test requirements. We can provide on-site testing services, and we now have a pair of Photron SA-X2 cameras and accessories available for rental by the day, week or month. Our application-specific training covers everything from the basics of high speed photography to best practices for specimen preparation and detailed results reporting.



Let's discuss your application today!

(215) 710-3000

www.trilion.com

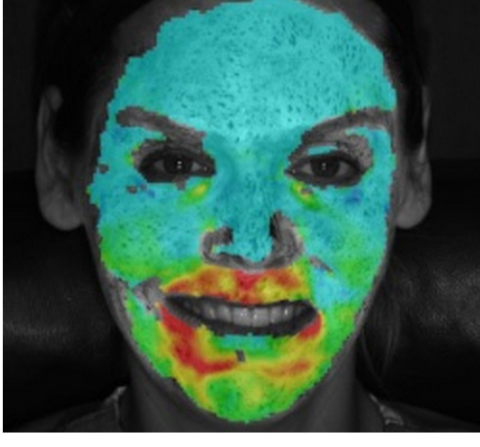
Trilion Quality Systems

Dynamic Measurements With High Speed Cameras

One of the fundamental features and benefits of the ARAMIS 3D image correlation system is that it works well regardless of the data acquisition rate (similar to how it is regularly used for fields of view ranging from 100 microns to 100 meters or more). The time between data acquisition stages can be years for condition monitoring; weeks, days or hours for creep tests; or minutes for gradual loading, thermal equilibrium, etc. Many tests such as load frame work in tension, compression or torsion are conducted with frame rates from once every few seconds to 15 frames per second (fps). However, ARAMIS is also widely used with higher speed cameras, starting at 55 frames per second and extending all the way up to 1 million frames per second or more.

[Click here for more on High Speed Measurements! »](#)

[Biomechanics Application Examples](#)



The field of biomechanics provides numerous measurement challenges, from blood vessels to orthopedics, which the ARAMIS full-field DIC and point tracking is well suited. Trilion Quality Systems provides a complete, turnkey solution with cutting edge technology and expert services!

[Click here to learn more »](#)

Send your comments to me at: feedback@abpi.net

Please let your colleagues know they too can receive the INSIDER free of charge simply by [clicking here](#).

If you would like to subscribe to the PRINT or DIGITAL version of *NASA Tech Briefs* magazine, [click here](#).

For information on how your company can sponsor future editions of the INSIDER, e-mail

joe@techbriefs.com.

Copyright © 2014 Tech Briefs Media Group

By clicking on the links in this e-mail you agree that Tech Briefs Media Group may share your contact information with the newsletter sponsor.

This message was sent to ntbsales@abpi.net.

If you no longer wish to receive emails like this, [click here](#).