



**PRESS RELEASE**

11 June 2014

## Premium Glass Refractive Index Measurements

*rIQ™ combines sophisticated image analysis software, advanced optical design and standard reference materials to enable criminalists in modern forensic laboratories to measure the refractive index of multiple glass fragments simultaneously, quickly and with the highest accuracy.*

rIQ™, which stands for Refractive Index Quantification, is the result of a collaboration between **CRAIC Technologies** and Laboratory Imaging. It enables a scientist to measure and compare the refractive index of the smallest fragments of glass with an incredibly high degree of accuracy. And when combined with CRAIC Technologies' microscope spectrophotometers and microcolorimeters, the transmission and fluorescence spectral characteristics of glass evidence can also be determined quickly and accurately and all with the same instrument."

rIQ™ is an automated system that uses the thermal immersion method, as defined by the standard ASTM E1967, to measure the refractive index of microscopic glass fragments. The system, which incorporates many years of experience with the analysis of glass, allows the user to analyse the refractive index of multiple glass fragments simultaneously and with sophisticated analytical techniques. Statistical analysis methods can also be applied to the data and the instrument is also designed to be user friendly with a short learning curve.

rIQ™ is offered as a standalone package, as an add-on package to CRAIC Technologies microspectrophotometers or as an upgrade package for older units already in the field. A standalone package consists of a phase contrast microscope, a high resolution digital camera, the optical interface, a thermal stage, the controlling electronics and the rIQ™ software. The add-on package can be integrated with many CRAIC Technologies microspectrophotometers models, both past and present, to allow them to measure the colour, absorbance microspectra™, fluorescence microspectra™ and the refractive index of the smallest of glass fragments.

For more information, contact **Warsash Scientific** on +61 2 9319 0122 or [sales@warsash.com.au](mailto:sales@warsash.com.au).

