

PRESS RELEASE
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rIQ™: High Precision Forensic Glass Analysis

Warsash Scientific is pleased to announce the release of rIQ™: the intelligent solution for the analysis of glass trace evidence. rIQ (Refractive Index Quantification), from **CRAIC Technologies**, combines sophisticated image analysis software, advanced optical design and electronics to enable criminalists in modern forensic laboratories to measure the refractive index of multiple glass fragments simultaneously, quickly and with the highest accuracy.

rIQ is an automated system that uses the thermal immersion method, as defined by the standard ASTM E1967-98, 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 easily and simultaneously and with sophisticated analytical techniques. Statistical analysis methods can also be applied but 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 and 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.

KEY FEATURES

- Automatic measurement of refractive index per ASTM and SWGMAT standards
- Sophisticated algorithms for high precision glass refractive index measurement
- Exceeds ASTM requirements for long term stability and reproducibility
- Up to 20 measurement probes
- Video recording of measurement procedure
- When added to CRAIC microspectrometers, transmission, fluorescence and colour spectra of glass fragments can also be measured
- Simple system calibration with glass standard reference materials
- Long term system and environmental conditions are monitored and stored
- Precision temperature control
- Automatic statistical analysis
- Data is stored in database and includes refractive index data, sample identification and description, environmental conditions and more
- Intuitive user interface
- Offered as a turnkey standalone package, as an add-on package to CRAIC microspectrophotometers and as an upgrade to older RI measurement systems already in the field
- Easy to use and maintain

For more information on rIQ or microspectrometers, contact Warsash Scientific on +61 2 9319 0122 or sales@warsash.com.au.

