



**PRESS RELEASE**

18 September 2012

## Spectral Surface Mapping™ Capability

Warsash Scientific now offer instrumentation capable of Spectral Surface Mapping™ which allows automatic spectral mapping of surfaces with microscopic spatial resolution. 3D maps can be generated of surfaces for transmission, absorbance, reflectance, polarisation, fluorescence, phosphorescence and even Raman spectra.

Spectral Surface Mapping (S2M™) capabilities are suitable for the Perfect Vision™ microspectrophotometer line from CRAIC Technologies. S2M™ gives microspectrometer users the ability to map the spectral variation of surfaces of their samples with microscopic spatial resolution. Surface profiles can be created using UV-visible-NIR transmission, absorbance, emission, fluorescence and polarisation microspectral data. S2M™ can even create maps from Raman microspectral data from an Apollo™ Raman microspectrometer. Microspectrometers can now create highly detailed spectral maps with micron scale resolution rapidly and automatically.

“CRAIC Technologies has worked to develop the Spectral Surface Mapping™ package because of customer requests. Our customers wanted the ability to automatically survey and characterise the entire surface of samples by their spectral characteristics. They also wanted a high spatial resolution” states Dr. Paul Martin, President of CRAIC Technologies. “The S2M™ package does just that. It allows you to collect spectral data from thousands of points with a user defined mapping pattern. And because our customers deal with so many different types of microspectroscopy, we gave S2M™ the ability to map UV-visible-NIR transmission, absorbance, reflectance, emission and even Raman microspectra all with the same tool.”

Spectral Surface Mapping™ includes a software module to be used with the MINERVA™ microspectrometer control software. When employed with microspectrometers featuring programmable stages, S2M™ allows a user to automatically take spectral measurements with user-defined mapping patterns that reach to the limits of the stage itself. With the ability to measure up to a million points, high definition maps of the spectral response of the surface of a sample may be generated. And, because of the flexibility and power of the software, the maps may be from transmission, absorbance, reflectance, fluorescence, emission and polarisation data. Raman spectral responses may be collected and mapped when used with Apollo™ Raman microspectrometers. S2M™ gives more power and flexibility to the scientist and engineer to study the entire surface of their samples by several different methods and in the highest level of detail.

For specifications or more information on Spectral Surface Mapping or the CRAIC range, contact Warsash Scientific on +61 2 9319 0122 or [sales@warsash.com.au](mailto:sales@warsash.com.au).

