Developing Micro-Displays with CRAIC Technologies 308 FPD™ Microscope Spectrophotometers

The 308 FPD™ spectrophotometer is used to measure color and relative intensity on the micron scale allowing for high-spatial resolution mapping of color and intensity of even the smallest micro-displays. It is easily attached to inspection microscopes and probe stations.

San Dimas, CA (April 4, 2011)—Micro-displays are currently being developed for the next generation of displays and feature ever smaller components. Component geometries have shrunk so much that standard metrology tools have difficulty accurately measuring color and intensity variations with the degree of spatial resolution required. Enter the 308 FPD™ microscope spectrophotometer from CRAIC Technologies. The 308 FPD™ is designed to measure and compare the spectral output, intensity and color consistency of each microscopic pixel of even the smallest micro-displays.

Micro-displays are being developed for everything from helmet mounted devices to high-resolution media glasses. With the constant demand for ever higher resolution combined with ever smaller cross sections, the dimensions for components such as pixels are rapidly shrinking. Current state-of-the art is less than 10 microns across for pixels and it is challenging to map color and intensity variations of groups of pixels much less of a single pixel.

The 308 FPD™ is a spectrophotometer that is designed to add to the open photoport of a microscope or probe station. It allows the user to acquire images and acquire spectra of microscopic sample areas quickly and rapidly. When added to the appropriate microscope or probe station, the 308 FPD™ can be used to measure the color and intensity of *each* pixel of a micro-display. Pixels can then be compared with one another for consistency or maps of both the intensity and color can be generated for each device. And as instruments such as the 308 FPD™ can acquire spectra on the order of a few milliseconds, entire micro-displays can be mapped quickly and accurately. This ensures both the color and intensity will be consistent across the entire device as well as from device to device.

For more information about the microspectral analysis of OLED displays with CRAIC Technologies, please visit www.microspectra.com.

About CRAIC Technologies: CRAIC Technologies, Inc. is a global technology leader focused on innovations for microscopy and microspectroscopy in the ultraviolet, visible and near-infrared regions. CRAIC Technologies creates cutting-edge solutions, with the very best in customer support, by listening to our customers and implementing solutions that integrate operational excellence and

technology expertise. CRAIC Technologies provides answers for customers in forensic sciences, biotechnology, semiconductor, geology, nanotechnology and materials science markets who demand quality, accuracy, precision, speed and the best in customer support.

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