

NEWS RELEASE

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For Immediate Release

Deposition Sciences Offers Highly Durable, Wide Angle Broadband Anti-Reflective (BBAR) Coatings

- Ideal for gimbal windows and sensor detector assemblies on unmanned systems

June 16, 2011 – Santa Rosa, CA – Deposition Sciences, Inc. (DSI[®]), manufacturer of durable thin film optical coatings, announces the design of a wide-angle broadband anti-reflection (BBAR) coating for gimbal windows and detector assemblies. The highly specialized coatings address the needs of unmanned aircraft systems (UAS) for a highly durable, angle-insensitive (FOV 0-30 degrees) glare-reducing coating on sapphire substrates. The design is band-selective, such that minimum reflectance can be tuned to a particular detector package, while still minimizing visibility (glare) in the photopic spectral sensitivity range of the human eye. The design delivers an average reflectance of approximately 2 percent between 400-5000 nm.



Consistent with the harsh operating environments of UAS, the new wide-angle BBAR coatings are environmentally stable and perform to MIL-C-48497 and MIL-F-48616 standards. Testing is performed on the coated windows according to specifications for humidity, salt-fog, abrasion, temperature cycle, adhesion, solubility, and cleanability. In addition, DSI's in-house testing facility ensures that cryogenic and operating temperature measurements can be made between 10-400 Kelvin.

For more information on DSI's durable wide angle, broadband anti-reflective optical coatings and test and measurement capabilities for military and defense applications, please visit www.depisci.com.

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Deposition Sciences, Inc. (DSI) – Santa Rosa, CA – www.depisci.com - For over 25 years, Deposition Sciences has produced the most durable optical thin film filter coatings in the industry.

DSI's coating capability ranges from the ultraviolet (UV), through the visible and includes near-infrared (NIR), midwave-infrared (MWIR) and out to the longwave-infrared (LWIR). At the heart of these capabilities is DSI's patented MicroDyn[®] reactive sputtering technology enabling superior multilayer thin film coatings for optics and other thin film technologies.