

# NEWS RELEASE

## Deposition Sciences, Inc. (DSI)

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*For Immediate Release*

## DSI Offers Specialized LPCVD Coating Process for Complex Shapes

**August 20, 2007 – Santa Rosa, CA – Deposition Sciences, Inc. (DSI)** develops, manufactures and applies highly specialized, durable coatings onto complex shapes and multifaceted substrates via the **IsoDyn™ LPCVD** (low pressure chemical vapor deposition) process. Ideal for coating almost all types of optical glass, including ball lenses, crystalline materials, ceramics and metals, DSI's proprietary LPCVD is a high temperature process (approx. 500 degrees C) that features uniform coatings on surfaces, both inside and out.

These high performance coatings are deposited over the entire surface of an irregularly-shaped optic, in a single-pass operation. The LPCVD deposition method is a thermally driven, organo-metallic process that is configured to deposit multilayers of silicon dioxide, tantalum oxide, and titanium dioxide, as needed. Fully automated, DSI's process is capable of manufacturing very complex filters, providing coatings with service temperatures as high as 700 degrees C. The multilayered coatings are resistant to thermal shock and can be deposited on optics as small as 0.3 mm. They also feature highly stable wavelengths that do not shift with temperature. With ball lens optics, the uniformity of the coatings simplifies assembly and eliminates the need for specific orientation of the part, greatly reducing labor-intensive, device-assembly costs.



All LPCVD IsoDyn coatings from DSI meet or surpass the rigid Mil-C-675 testing standards for severe abrasion, adhesion, humidity and salt fog tests, making them ideal for a wide variety of high temperature materials.

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**Deposition Sciences, Inc. (DSI) – Santa Rosa, CA – [www.depisci.com](http://www.depisci.com)** - For over 20 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, MEMS and other thin film technologies.