

NEWS RELEASE

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For Immediate Release

DSI Offers Infrared Narrow Bandpass Optical Filters for Spectroscopy

November 16, 2010 – Santa Rosa, CA – Deposition Sciences, Inc. (DSI), manufacturer of highly durable thin film optical coatings, introduces advanced **Infrared Narrow Bandpass (IR NBP) Filters** for industrial, medical, and biological sciences instrumentation. The improved narrow bandpass optical filters offer high spectral performance, with accurate center wavelength placement, and good temperature stability which makes the infrared NBPs ideal for spectroscopic applications such as advanced gas-sensing. The NBP filters' IR spectral range enables the user to detect a particular gas and to identify the concentration levels of gases such as CO₂, CH₄, HO_x, and more.

According to DSI's Thin Film Design Engineer, Lucas Alves, "The detection of gas concentrations by spectroscopic techniques is the basis for a variety of applications. The absorption of infrared radiation at wavelengths between 2.0 - 20.0 microns provides a definitive signature of the bending, stretching, and/or twisting of the atomic bonds in a particular gas molecule. DSI's IR narrow bandpass filters allow discretization of the spectra through a gas sample at multiple detection wavelengths, inside and/or outside the absorption band of interest."



Thin film optical coatings are widely used for non-diffractive infrared (NDIR) sensing systems and other measurement tasks. DSI's NBP filters are calibrated for center wavelength (CWL) placement to offset temperature shifts that are native to this spectroscopic measurement technique. They also feature reliable and repeatable transmittance characteristics which are essential for high performance in any gas-sensing application in the infrared.

For more information, please visit www.depsci.com.

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Deposition Sciences, Inc. (DSI) – Santa Rosa, CA – www.depsci.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 and other thin film technologies.