Princeton Instruments' IsoPlane SCT Imaging Spectrograph Named as Finalist for Prism Award for Photonics Innovation

November 16, 2012 – Trenton, New Jersey - Princeton Instruments is very pleased to announce that the company's I**soPlane SCT 320** aberration free spectrograph has been named as a finalist for the **Prism Award for Photonics Innovation.** This prestigious photonics industry award is presented by SPIE (the international society for optics and photonics) and Photonics Media at a gala ceremony during the Photonics West Conference on February 6th, 2013. The IsoPlane is included in the Detectors, Sensing, Imaging and Cameras category.

Ravi Guntupalli, Vice President of Sales and Marketing states, "we are thrilled that the IsoPlane is a finalist for the Prism award. The IsoPlane is set to revolutionize the laboratory spectrograph, as we know it, with its ability to provide aberration free imaging and best possible signal-to-noise ratio over the entire focal plane."

The IsoPlane® (patent pending) features a revolutionary new optical design that eliminates the primary aberrations present in traditional imaging spectrographs. It produces images that are clearer and sharper across the focal plane than any comparable spectrograph on the market. As a result, more photons end up in spectral peaks, significantly increasing the effective signal-to-noise ratio (SNR).

Czerny-Turner imaging spectrographs are subject to imaging aberrations such as coma, astigmatism, and spherical aberration. Coma limits the spectral resolution of a spectrograph at most wavelengths, as it can be eliminated at only a single grating angle. The IsoPlane SCT-320 greatly reduces coma, thus preserving spectral resolution at all wavelengths.

Astigmatism appears as a vertical distortion of an image, limiting both spectral and spatial resolution. Astigmatism is completely eliminated in the IsoPlane SCT-320 spectrograph. This means that many more fibers in a bundle can be resolved, eliminating crosstalk in multichannel spectroscopy.

Together with Princeton Instruments' industry-leading CCD, EMCCD, ICCD, and InGaAs cameras, as well as highly reflective mirror coatings from Acton Optics, the IsoPlane offers the best available performance in optical spectroscopy.

Applications for the IsoPlane spectrograph include multichannel spectroscopy, microspectroscopy, Raman scattering, fluorescence, photoluminescence, laser-induced breakdown spectroscopy (LIBS), Fourier-domain spectroscopy, biomedical imaging, and most other spectroscopic imaging techniques.

For more information: www.deter-the-blur.com

About Princeton Instruments

Princeton Instruments designs and manufactures high-performance CCD, ICCD, and EMCCD cameras; spectrographs; and optics-based solutions for the scientific research, industrial imaging, and OEM communities. We take pride in partnering with our customers to solve their most challenging problems in unique, innovative ways. Princeton Instruments is a registered ISO 9001: 2008 company. For more information on Princeton Instruments products, please visit www.princetoninstruments.com.

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