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Innovations in Optics, Inc, Introduces UV-LED Illuminators for DLP® Applications Emitting over 15W of Optical Power

Woburn, MA, June 2, 2014ð Innovations in Optics, Inc. introduces LumiBrightÊ 3300B UV-LED Illuminators for Digital Light Processing (DLP) applications such as 3D printing, maskless lithography, prepress digital imaging, phototherapy, and refractive surgery. The UV-LED technology offers more reliable and economical advantages over lasers and arc lamps in UV DLP systems.

DLP and the DLP® logo are trademarks of Texas Instruments. The technology uses millions of tiny mirrors to digitally produce an image with a light source. When used with ultraviolet (UV) light and photosensitive materials, DLP offers continuous scanning, as well as selective and overlapping exposures with greater throughput and efficiency than flying spot laser systems.

The Model 3300B UV-LED Illuminators for DLP comprise a densely packed UV-LED array coupled to a high efficiency, non-imaging collection optic with an aspect ratio matched to DLP chips. Its integral imaging optic is telecentric over the entire DLP and is constrained in angle to match the micromirror tilt angle. Water-cooling allows the UV-LED array to be operated at a very high current density. The result is an extremely high power, highly uniform UV-LED illuminator to provide unprecedented speed and resolution for UV DLP applications.

The Model 3300B UV-LED Illuminators for DLP support 3D printers for rapid prototyping, additive manufacturing, and tissue engineering. PC-board makers employ maskless lithography to quickly revise circuit board layouts. Traditional screen and offset plate printers utilize UV DLP systems for prepress digital imaging. Emerging UV DLP medical treatments strive for localized, high contour precision for skin lesions in dermatology and for corneal disorders via collagen cross-linking in ophthalmology.

Standard center wavelengths include 365 nm, 385 nm, 395 nm and 405 nm. Single or dual wavelength configurations are available. Two models are available to support both 0.95 1080p and 0.7 XGA format DLP chipsets providing high radiant power greater than 15 Watts on 0.95 DLP and greater than 9 Watts on 0.7 DLP. Thermal management features including water cooling of the LED array are designed to provide more than 10,000 hours of high-power operation.

Innovations in Optics, Inc. (IOI), founded in 1993 and located near Boston, is widely recognized as a leading innovator in the areas of high brightness LED chip-on-board (COB) products and illumination engineering and technology. Leveraging a unique, multidisciplinary approach to systems design, the company pushes the technology envelope to develop industry-leading ultra-high brightness LED products. IOI light engines and illumination systems feature patented and patent-pending optics which collect, direct and maximize output efficiency and uniformity, enabling some of todayôs most revolutionary solutions in cutting-edge technical applications for LED light sources.