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Solid-State Light Source Driver/Controller Features 18 Independent Output Channels for LED and LD Sources

Woburn, MA, June 14, 2017 Innovations in Optics, Inc. introduces the 5500A Solid-State Source Driver/Controller to independently drive, control and modulate as many as 18 different solid-state sources, including combinations of LEDs and LDs and even IR VCSEL arrays. The 5500A Solid-State Source Driver/Controller provides precise, independent, constant current control up to 3A per source channel to achieve optimal performance. Its ground based design is configured for common cathode LED or LD devices which allows for multiple channels to be run in parallel for a combined current of up to 54A.

The 5500A is especially designed to ensure maximum output and lifetime from Innovations in Optics' LumiBright 3300B UV-LED Illuminators for UV DMD applications such as 3D printing, computer-to-screen and computer-to-plate printing and maskless lithography. The 5500A provides independent current control to each UV-LED to achieve optimal performance and lifetime by ensuring uniform current density through the entire LED array. Each die in the UV-LED array can be driven and modulated independently for precise exposure control in direct imaging systems. The output parameters for each source channel are set through RS-232, USB or Ethernet using a simple command set provided for user programming. Output is initiated over an external trigger.

The Model 5500A is also intended for technical and industrial applications such as LED lighting for machine vision, CCTV security and surveillance, and license plate recognition (LPR) for traffic enforcement or parking garage management. The 5500A Driver/Controller provides constant current in continuous mode or pulsed mode to a minimum pulse width <20 microseconds and a maximum 15 kHz rep. rate. Drive current is selectable from 0A to 3A per channel with 10-bit resolution at a maximum compliance voltage of 6.0VDC. The 5500A system additionally includes the ability to monitor a

temperature sensor that is installed on a solid-state source module, and a photosensor input for monitoring light output from specific illuminator designs.

Innovations in Optics, Inc. (IOI), founded in 1993 and located near Boston, offers high power LED light sources for science and industry that provide maximum photon delivery, illumination uniformity, and stable optical power. IOI's LumiBright[®] products offer system-level advantages over lasers and arc lamps in OEM equipment for many applications. LumiBright[®] light engines and illumination systems feature patented and patent-pending optics which collect, direct and maximize output efficiency and uniformity. Available LED wavelengths range from UV 365 nm through the near-infrared, including broadband white and multiband options.