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## High Power Solid-State Light Source Driver Digitally Controls and Modulates as Many as 20 Different LED and LD Sources

**Woburn, MA, June 3, 2016** Innovations in Optics, Inc. introduces the 5000B-500 Solid-State Source Driver/Controller to independently drive, control and modulate as many as 20 different solid-state sources, including combinations of LEDs and LDs and even IR VCSEL arrays. The 5000B-500 features both USB and Ethernet interfaces to control the intensity, pulse width and duty cycle of each solid-state source.

Powered from a universal VAC input, the 5000B-500 Solid-State Source Driver/Controller provides precise output control of solid-state sources on each channel, up to 20 channels in total. Its ground based design can be configured for common anode, common cathode or combinations to work with all types of P-Up and P-Down LED or LD devices. The 5000B-500 provides constant current control up to 4A per source channel to achieve optimal performance. Any given number of like channels can be paralleled together, making this a flexible source capable of delivering between 4A to 80A drive current to a single solid-state source.

The Model 5000B-500 is 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 5000B-500 Driver/Controller provides constant current in continuous or pulsed modes and features PWM dimming. Pulse widths on the order of 1  $\mu$ sec are achievable with short lead lengths. Drive current is selectable from 0A to 4A per channel in 10 mA steps up to a maximum 5.5V compliance voltage. The output parameters for each source channel are set through USB or Ethernet using a simple command set. Output is initiated over an external trigger BNC.

The 5000B-500 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. A 24VDC output supports operation of cooling fans mounted to a solid-state illuminator. An optional 19-inch rack mount hardware kit for the compact 5000B-500 occupies a 2U half-rack space.

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. LumiBright™ system components include thermal management devices and driver/controllers.