

# NEWSRELEASE

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## OPTO DIODE CORPORATION

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*For Immediate Release*

## Opto Diode Introduces High-Power Optical Output IRLED Illuminator

**August 21, 2013 – Newbury Park, CA – Opto Diode ([www.optodiode.com](http://www.optodiode.com))**, a division of ITW, and a member of the **ITW Photonics Group**, introduces the **OD-669-850** high-power gallium aluminum arsenide (GaAlAs) infrared light-emitting diode (IRLED) illuminator. Ideal for night vision illumination tasks, the infrared illuminator features ultra-high optical output, from 800 (minimum) to 1250 mW (typical) and a peak emission wavelength of 850 nm.



Opto Diode's new device provides an exceptionally uniform optical beam. The spectral bandwidth at 50% is typically 40 nm, and the half-intensity beam angle is 120 degrees. All surfaces on the standard 2-lead, TO-66 electrically-isolated package are gold plate.

The OD-669-850 IRLED illuminator's operating and storage temperatures range from - 40 degrees C to +100 degrees C with a maximum junction temperature of 100 degrees C. Power dissipation (under absolute maximum ratings at 25 degrees C) is 6 W, with a continuous forward current of 370 mA, a peak forward current of 1A and reverse voltage at 5 V. The lead soldering temperature (at 1/16 in. from case for 10 seconds) is 260 degrees C.

For more information about Opto Diode's ultra-high-power-output IRLED illuminators, please visit: [www.optodiode.com/pdf/OD669-850.pdf](http://www.optodiode.com/pdf/OD669-850.pdf).

**Opto Diode Corporation** ([www.optodiode.com](http://www.optodiode.com)) based in Newbury Park, California, is a member of the ITW Photonics Group, delivering high-performance, standard and custom photodetectors, and reliable, high quality, standard and custom infrared and visible LEDs. The company, with the recent acquisition of International Radiation Detectors, also designs and manufactures semiconductor radiation devices that detect photons in the UV range, X-rays, and other high energy particles. The domestic U. S. manufacturing plant includes a wafer fab and ensures delivery of volume quantities at competitive prices with short lead times. Opto Diode's rigorous quality control standards meet their customer's strictest requirements in a variety of industries, including test & measurement, biotechnology, medical, entertainment, military/defense, industrial, aerospace, automotive, R&D and more.

**About *ITW Photonics Group*:** ITW, a diversified manufacturer of advanced industrial technology, has brought together three of its photonics business units to form the ITW Photonics Group. The ITW Photonics Group was created to bring together and build on the technical expertise of three individual companies that specialize in photonics technology and span the full spectrum of wavelengths. The group consists of Lumex (LED and LCD technology, headquarters in Palatine, IL and Taiwan), Cal Sensors (IR detector and emitter technology, based in Santa Rosa, CA) and Opto Diode (LED, silicon photodiodes and electro-optical assembly technology, based in Newbury Park, CA).

The synergy of these industry frontrunners provides an unsurpassed range of photonic capabilities within a broad spectrum of markets, including medical, military and industrial controls. The ITW Photonics Group provides integrated solutions that encompass the technology and experience from all three business units, offering design engineers higher product performance with greater feature enhancements. For more information on the ITW Photonics Group, log onto [www.itwphotonicsgroup.com](http://www.itwphotonicsgroup.com).

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