

HENHAM, ENGLAND, October 07, 2013 /**24-7PressRelease**/ -- The Optoelectronics Company, a leading global manufacturer of innovative optoelectronic components and distributor of Oclaro (Opnext) laser diodes and Panasonic glass lenses, has announced the launch of the Oclaro HL63153AT, a tiny red laser diode that delivers 150mW single-transverse-mode optical output power at 638nm, which is 25% more power than its predecessors. This is currently the highest single-transverse-mode optical output power at a red wavelength available on the market.

The massive increase in output power is due to a technology breakthrough which Oclaro accomplished by developing new processes, including an optimised waveguide structure, and fine-tuning the laser device structural parameters. The consequent leap forward in performance enables a brighter, more vibrant high-lumen image display for compact mobile devices such as pico projectors, smartphones and mobile gaming devices while greatly decreasing power consumption.

"System designers are working on the development of ever more compact RGB modules for the rapidly expanding mobile display market", stated Tony Pope, M.D., the Optoelectronics Company. "The Oclaro HL63153AT addresses their need for a light source that combines high brightness and high operating temperature range with a small-form-factor package which is fundamental to further miniaturisation".

Size reduction of mobile, handheld devices which employ RGB laser technology is often limited by the power requirements of the display which must have vibrant colour and sharp images while still offering low energy consumption and a long battery life. The Oclaro HL63153AT will benefit manufacturers with its low power consumption of only 0.6W in a tiny 3.8mm-diameter TO industry-standard package.

Takayuki Kanno, President, Oclaro Japan, said "this newest red laser diode has been designed as a direct result of customer requests for a shorter wavelength diode that delivers higher power in a thin package".

The introduction of the HL63153AT is well-timed as a global company announces what it says is the highest resolution smartphone screen to date which is also the slimmest available on the market with the bonus of reduced power consumption and extended battery life.

The HL63153AT delivers 150mW single transverse mode optical output power from a tiny

3.8mm package at a typical wavelength of 638nm. It has a low operating current of 230mA and threshold current of 75mA. Operating voltage is only 2.7V and LD reverse voltage is 2V. Operating temperature is from -10 to +60 degrees Centigrade.

As well as laser displays, the Oclaro HL63153AT is ideal as a light source for optical equipment and small laser modules.

Oclaro's high performance laser diodes are proven to consume a low operating current which extends battery life while maintaining the integrity of the laser diode power in a variety of applications such as range finding, line levelling construction systems and biomedical applications.

The Oclaro HL63153AT will be in full production from February 2014. Please contact the Optoelectronics Company to request samples.

Oclaro high performance laser diodes are available through the Optoelectronics Company.

The Optoelectronics Company, founded in 2009 by Tony Pope and Damon Cookman, is a manufacturer of high performance custom-designed and standard laser diode modules and also an authorised distributor of innovative optoelectronic components, including OCLARO (Opnext) Laser Diodes and Panasonic Lenses, to industrial, medical, telecommunications and defence markets in the UK, Europe and USA.

For additional information, please visit <http://www.oe-company.com>