

## Press Release

### Laser Energy Measurement with the mach 5

#### Fastest Laser Energy Measurement Device on the Market

There is now a solution for practical real-time measurement of DPSS pulse energies in the 30 - 50 kHz range. LASER COMPONENTS presents the mach 5 – the laser energy meter from Gentec-EO. The mach 5 exactly measures the pulse-to-pulse energy. It counts all the pulses above a certain defined energy threshold.

Major technological challenges made the latest development in the measurement of single pulses of up to 130 kHz difficult: First, a family of pyroelectric high-speed probes that can be used at frequencies of more than 100.000 Hz had to be developed for energy measurement purposes. At the same time, extremely fast, digital electronics were developed that analyze each pulse in real time and store this information just as quickly – approximately 4 million data points are processed in just 40 seconds!

The energy meter determines energy, frequency, average power, and pulse jitter in a single measurement. At the same time, it determines the number of missing pulses or pulses below an energy threshold defined by the user. With the included software it is possible to display the measurement data in a strip chart, histogram, or statistics window. The user's measurement profile can be stored for analysis at a later point in time. For automated measurements use the automated "life test". The measurement runs its course without the user's assistance.

#### More Information

<http://www.lasercomponents.com/de-en/product/130-khz-laser-energy-meter/>

#### Trade Shows

**BiOS 2012**, January 21-22, 2012, The Moscone Center, San Francisco, **South Hall – Booth 8517**  
**Photonics West 2012**, Jan. 24-26, 2012, Moscone Center, San Francisco **South Hall – Booth 517**  
**Analytica 2012**, April, 17-20, 2012, Munich International Trade Fairs, **Booth A2.400A**  
**Optatec 2012**, May, 22-25, 2012, Frankfurt Exhibition Centre, **Booth E01**  
**Sensor + Test 2012**, May, 22-24, 2012, Nürnberg Exhibition Centre, **Booth 12-426**

#### The Company

LASER COMPONENTS is specialized in the development, manufacture, and sale of components and services for the laser and opto-electronics industries. With sales offices in four different countries, the company has served its customers since 1982. In-house production at six locations in Germany, Canada, and the USA began in 1986 and is meanwhile responsible for about half of its turnover. Currently, the family-run business employs more than 130 people worldwide.