

### Stability and Laser Class Guaranteed

## 520 nm Laser Modules for Medical Technology

Laser modules with 520 nm laser diodes that emit directly are being used more and more in medical technology – quite often as a replacement for 532 nm solid-state lasers. All FLEXPOINT® laser modules are now available with 520 nm laser diodes – they are also equipped with a photodiode, which offers the following advantages: Performance stability across a given temperature range.

The output power is kept constant at  $\pm 5\%$  – across the entire operating temperature range between 0°C and 50°C. Comparable modules achieve only  $\pm 10\%$ . Due to this level of stability, LASER COMPONENTS guarantees compliance with critical laser classes. An additional monitoring circuit guarantees real single-fault safety: this is absolutely crucial in the medical field.

The output power can be adjusted continuously using a control wire and a voltage signal (0-5 V). The photodiode significantly improves the linearity of the adjustment range. In addition, we offer the option of digital or analogous modulation, as well as pulse width modulation.

The 520 nm laser modules are available as dot, line, or cross-hair lasers. The output power ranges from <1 mW to 25 mW. All FLEXPOINT® laser modules can be modified and adjusted according to customer specifications.

Green laser modules are used to position patients in CT or MRT applications and as pilot beams in high-power medical lasers.

### More Information

<http://www.lasercomponents.com/de-en/lasers/laser-modules/flexpoint-dot-and-line-lasers/>

### Trade Shows

**enova**, Sept. 16-18, 2014, Paris expo Porte des Versailles, **Booth C11**  
**Photonex 2014**, Oct. 15-16, 2014, Ricoh Arena, Coventry, UK, **Booth D20**  
**Vision 2014**, Nov. 04-06, 2014, Messe Stuttgart, Germany, **Booth 1F14**  
**electronica 2014**, Nov. 11-14 2014, Messe München, Germany, **Booth B1-306**

### The Company

LASER COMPONENTS specializes in the development, manufacture, and sale of components and services in the laser and optoelectronics industry. At LASER COMPONENTS, we have been serving customers since 1982 with sales branches in five different countries. We have been producing in house since 1986 with production facilities in Germany, Canada, and the United States. In-house production makes up approximately half of our sales revenue. A family-run business, we have more than 170 employees worldwide.