

## OFDR-1000A – Optical Frequency Domain Reflectometer

### PolaMagic: New Optical Frequency Domain Range Reflectometer

LASER COMPONENTS introduces General Photonics' new optical frequency domain range reflectometer (OFDR). It not only measures reflections along a fiber but also analyzes the polarization of light.

Very tight bending radii and mechanical stress affect the lifetime of optical fibers. Finding such disturbances is difficult with fibers that are insensitive to bending because they do not necessarily lead to additional reflections or an increase in attenuation. Conventional OTDR measurement fails in this respect.

However, both disturbance factors affect the birefringence of the optical fiber. The PolaMagic OFDR-1000A measures this change in birefringence at a specific location precisely to within 2 mm; therefore, it is very well suited for detection in fibers that are insensitive to bending.

This measurement device also identifies locations of internal reflection and changes in birefringence in the optical path of fiber-optic components reliably; for this reason, it is used in the quality control of optical components.

The PolaMagic OFDR-1000A can be operated with tunable C band and L band laser sources from third party providers. Oftentimes, existing sources can be used, which minimizes the investment costs of OFDR measurement.

#### More Information

[lasercomponents.com/de-en/news/polamagic-measuring-reflection-and-birefringence-in-optical-fibers/](http://lasercomponents.com/de-en/news/polamagic-measuring-reflection-and-birefringence-in-optical-fibers/)

#### Trade Shows

Elektronik 2017, March 08-09, Svenska Mässan, Schweden  
 Enova 2017, March 15-16, Starsbourg, France  
 JSOL - Journées Sécurité Optique et Laser 2017, March 28-29, Bordeaux, France  
 Automate 2017, April 3-6, 2017, Chicago, IL, USA, **Booth 2661**  
 DCS 2017, April 11-13, 2017, Anaheim, CA, USA, **Booth 628**  
 Breko 2017, April 25-26, 2017, Messe Frankfurt, **Booth 53**  
 Optics & Photonics Days 2017, May 29-31, 2017, Oulu, Finland  
 ANGACOM, May 30 - June 01, 2017, Cologne, Germany, **Booth 7-B09**  
 Sensor+Test, May 30 - June 01, 2017, Nürnberg, Germany, **Booth 1-256**  
 LASER World of Photonics, June 26-29 2017, Messe Munich, **Booth B3.303**

#### 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 200 employees worldwide.