

## Press Release

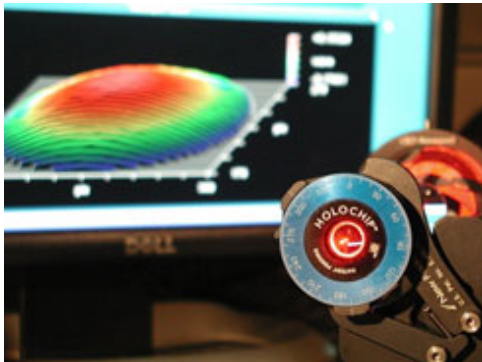
### **Adjustable, Adaptable, Affordable: Adaptive polymer lenses – innovative solutions for utilizing and manipulating light**

**Weßling, 29.05.2008,** The APL-1050 is a variable-focal-length singlet fluidic lens utilizing proprietary design, formulation and packaging. It is a new component for the optics market and is affordable, durable, high-quality, and high-precision.

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A lens core of the APL-1050 includes a lens fluid, an AR-coated and polished glass substrate, and a transparent elastomeric membrane. The highly-inert and non-compressed optical fluid is hermetically sealed inside the lens core. The lens core is encased in an aluminum housing that includes an actuation mechanism and angular markings. A portion of the lens core extends outside of the housing and has a ring-shaped grip for rotary manual actuation. Rotation of the grip results in compression of the lens core and a deformation

of the membrane. The deformation of the membrane caused by non-compressed liquid is spherical and this results in a change in focal length of the lens.

#### **Highlights of the APL-1050:**

- Focal length: 20 mm to 1 m (manually adjustable)
- Transmission: > 90% (400-700 nm)
- Wavelength range: 200...2200 nm (without coating)
- Clear aperture: >10 mm
- Operation temperature: -20...60 °C
- Dimensions housing: 45,7 x 20,8 mm (Diameter x Width)
- with barrel for 25.4 mm mounts

#### **About Laser 2000:**

Since 1986 Laser 2000 GmbH is a supplier of high technology in the field of lasers, micromachining equipment, optics, and fiber optic equipment. Our products are designed to meet the challenges of both research and industrial production as well as your actual or future requirements of your applications.

Laser 2000 is headquartered in Munich, Germany and operates local offices in all major business areas of the European market. In order to support your application we deliver top-level service and products and meet the highest standard of quality. With an installed base of thousands of applications around the world, Laser 2000 has shown the ability to provide onsite-support in time. More information: [www.laser2000.de](http://www.laser2000.de)

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