

PRESS RELEASE

FOR IMMEDIATE RELEASE

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WITH THE MPO 100, THE DEGGENDORF INSTITUTE OF TECHNOLOGY IS EXPANDING ITS MANUFACTURING POSSIBILITIES FOR NEW SENSOR APPLICATIONS

Würzburg / Deggenndorf, Germany – The Deggenndorf Institute of Technology (DIT) has placed an order for the MPO 100. Multiphoton Optics was awarded the contract shortly before the official market launch of the new multi-user laser direct writer, which is based on Two-Photon Polymerization (TPP) and is produced by the parent company Heidelberg Instruments Mikrotechnik GmbH. At the Technology Campus (TC) Teisnach Sensor Technology of the DIT, the MPO 100 will be used in the field of packaging and integrated optics.

When procuring the new system, DIT focused on a high resolution over a largest possible printing range for the production of diffractive optical elements (DOE) and a wide selection of available photoresists. Daniel Schäffer, research associate and doctoral student at the Deggenndorf Institute of Technology, was largely responsible for the selection process: "The MPO 100 was particularly convincing due to its wide range of applications as well as its high-precision stage and stitching-free structuring. Another major advantage of the system is the integrated flow box."

In the field of additive manufacturing, the TC Teisnach Sensor Technology with the MPO 100 is now taking a step from the micrometer to the nanometer world, thus profitably expanding the range of high-tech special solutions for existing and new cooperation partners from industry companies. The TC Teisnach Sensor Technology bundles the know-how of DIT in the areas of packaging and advanced materials, integrated optics, and safe digitization. The expertise ranges from micromachining of complex components to functional sensor coatings and material analysis. The MPO 100 will be used in particular for the structuring of integrated optical components, such as miniaturized spectrometers and beam-shaping optics on fiber optics, as well as for the use of ORMOCER[®]s for robust, function-integrated sensor housings in the field of packaging and advanced materials. "The Deggenndorf Institute of Technology can look back on a long success story and conducts research on future-oriented topics at the TC Teisnach Sensor Technology. We are pleased that one of the first orders for the MPO 100 has come from Germany and that we can contribute to novel sensor concepts with our product," says Benedikt Stender, Managing Director of Multiphoton Optics GmbH.

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About Multiphoton Optics GmbH:

Multiphoton Optics GmbH, a wholly owned subsidiary of Heidelberg Instruments Mikrotechnik GmbH, is a global solution provider for 3D lithography via two-photon polymerization (TPP). This disruptive technology enables the production of complex functional structures in micro-optics and microsystems technology, optical interconnect technology, micromechanics, and biomedical technology. The modular 3D printing platform MPO 100 enables the high-precision fabrication of structures in the sub micrometer to millimeter range with very high throughput.

About Deggendorf Institute of Technology, Technology Campus Teisnach Sensor Technology:

With deep roots in its Lower Bavarian homeland, the Deggendorf Institute of Technology (DIT) has developed since 1994 into the most successful new university of applied sciences of the 90s in Bavaria. With the successive development of attractive fields of study, supplemented by an appealing range of further education, intensive research activities, and knowledge and technology transfer to the regional economy, picking up on economic and social trends, and maintaining regional and international contacts, the DIT offers an attractive study environment.

Since 2009, the DIT has successively founded special research institutions in the neighboring districts – the Technology Campuses. Experts develop application-oriented special solutions in close cooperation with high-tech companies. At the heart of this institutional work is the symbiosis of scientific research and its economic application.

The Technology Campus Teisnach Sensor Technology bundles DIT's know-how in the areas of packaging and advanced materials, integrated optics, and secure digitization.

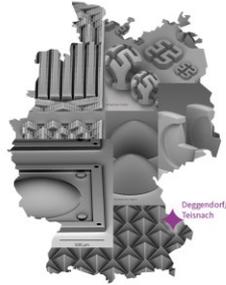
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**MPO 100 - BAVARIA EDITION:
DEGGENDORF INSTITUTE OF TECHNOLOGY
TO EXPAND MANUFACTURING POSSIBILITIES
FOR NEW SENSOR APPLICATIONS**



<https://multiphoton.de>



The Deggendorf Institute of Technology expands their manufacturing possibilities for new sensor applications with the MPO 100.

Source:
Multiphoton Optics GmbH