

PRESS RELEASE

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MPO 100 GOES AUSTRALIA: ANFF-Q PURCHASES 3D NANOPRINTER

Würzburg, Germany / Brisbane, Australia – The Australian National Fabrication Facility – Queensland Node (ANFF-Q) based at the University of Queensland, Australia has placed a purchase order for the recently launched Two-Photon Polymerization tool MPO 100. The system, developed by Multiphoton Optics GmbH and manufactured by its parent company Heidelberg Instruments Mikrotechnik GmbH, will provide cutting-edge fabrication capability in nano- and microfabrication to ANFF-Q.

“ANFF-Q is an open-door R&D facility assisting clients from industry and academia to progress their products. To expand our fabrication capabilities, ANFF-Q was looking for a nano 3D printer with highest printing resolution as well as advanced fabrication techniques and the MPO 100 met all our criteria”, says Anthony Christian, ANFF-Q Manager. “The technical details of the MPO 100 stand out from other potential candidates - especially the achievable resolution of 100 nanometers as a pivotal parameter and the very attractive stitching-free fabrication capability”, adds Juan Li, Senior Professional Officer Micro- and Nanofabrication at ANFF-Q.

ANFF-Q serves a wider scope of applications than normal R&D facilities and provides a safe, IP neutral environment where the clients’ designs and developments remain their property. The MPO 100 will be used for target applications in micro-optics, microfluidics, micro needles, and diffractive optical elements. The system will be the third Heidelberg Instruments machine after the MLA 150 and a µPG101, which are already in place at ANFF-Q.

“The MPO 100 was officially introduced into the market end at the end of January in 2022. The purchase of the tool by ANFF-Q was one of the first orders and confirms the customer-oriented development of the system. We are looking forward to a close collaboration with ANFF-Q”, says Dr. Benedikt Stender, CEO of Multiphoton Optics.

During the tender, Multiphoton Optics was supported by Heidelberg Instruments’ local distributor Nano Vacuum, which have already worked closely on several successful projects with ANFF-Q. “We are thrilled to be able to bring the first MPO 100 system to Australia. With over 25 years of experience in the nanofabrication industry, Nano Vacuum is always eager to see the conception of innovative tools and cutting-edge technologies in the research space!”, says Dr. Ava Faridi, Product Manager at Nano Vacuum.

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About Multiphoton Optics:

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 enables the high-precision fabrication of structures in the sub-micrometer to millimeter range with very high throughput.

About ANFF-Q:

The Australian National Fabrication Facility (ANFF) is a not-for-profit research infrastructure facility established under the National Collaborative Research Infrastructure Strategy. ANFF is a network of eight nodes distributed throughout Australia, filled with over \$200 million of investment in tooling, infrastructure, and people.

ANFF's Queensland Node (ANFF-Q) is a state-of-the-art fabrication facility specializing in nano-micro fabrication, microfluidics, organic electronics and opto-electronics, biomaterials, novel semiconductor materials and characterization.

About Heidelberg Instruments Mikrotechnik GmbH:

With over 35 years of experience and more than 1,200 installed systems, Heidelberg Instruments is one of the leading international players in the development and production of high-precision photolithography systems and nanofabrication tools. Heidelberg Instruments systems are installed in industrial and scientific facilities around the world.

They are used for efficient direct writing, as well as for photomask fabrication for a wide range of industries including semiconductor, quantum computing, photonics, 2D materials, IoT, and many related application fields.

About Nano Vacuum:

Nano Vacuum has over 25 years of experience within the nanofabrication industry, servicing customers through a network of global trusted manufacturers and suppliers. Their aim is to provide the best service and advice to their Australian, New Zealand and global customer base, enabling them with the most cutting-edge nanofabrication tools available for tomorrows research.

Their range of deposition, etching, plasma modification, clean/inert environments, packaging and lithography tools offer nanofabrication resources to ensure their customers stay at the forefront of the highly competitive research space.

Their goal is to empower their customers with the best resources, application knowledge and tools to succeed, with a service exceeding expectations.