



TOPTICA eagleyard
Rudower Chaussee 29
12489 Berlin/Germany

Marketing Contact

Stephanie Hannibal
stephanie.hannibal@toptica-eagleyard.com
Tel: +49 30 6392 4561/ +49 01752233563

Press Release

PRODUCT LAUNCH: μ MOPA

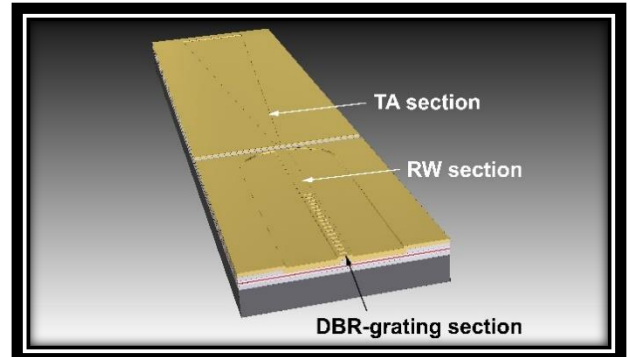
μ MOPA – fully integrated into standard butterfly platform

Berlin/Munich, Germany, January 5th, 2022 TOPTICA eagleyard will set a milestone in the photonic industry with the launch of the μ MOPA that was nominated as finalist for the 2022 SPIE Prism award.

At this year's Photonics West taking place in San Francisco from Jan 25th-27th TOPTICA eagleyard will introduce the μ MOPA to the world. It's an innovation that is already being valued highly by experts as this extraordinary product is nominated as SPIE Prism award finalist.

Our developers managed to create a unique product to bridge the gap between science and industry: For the first time a DBR laser and tapered amplifier are monolithically integrated on a chip with a standard 14 pin butterfly package. As a result, the complexity for usage is reduced significantly. In addition, the product is easily mountable due to the use of standard sockets while the circular beam profile is especially beneficial for fiber coupling and focusing.

The μ MOPA will mainly be used in Raman spectroscopy and interferometry. Researchers at universities and institutes will benefit from this new variant as MOPA systems are more easily built up. In addition, the ease of use and the robustness of the package as protection against environmental influences enable a scalability for industry usage so that this innovation will lead to outstanding results and new applications along the value chain.



Major performance indicators are:

- 1064 nm
- High output power (2 W)
- Small spectral width (typ. 3 pm)
- 14 pin butterfly package
- Very good SMSR (typ. > 50 dB)
- Integrated beam collimation
- Low residual divergence
- Integrated thermal management by thermoelectric cooler and thermistor

About TOPTICA eagleyard:

TOPTICA eagleyard's core competence is the development, production and sale of innovative high-power laser diodes based on GaAs (Gallium Arsenide). Its portfolio contains laser diodes with wavelengths ranging from 630 nm to 1120 nm sorted in five product families: Single Mode Laser Diodes, Single Frequency Laser Diodes, Multimode Laser Diodes, Tapered Amplifiers and Gain Chips. These laser diodes are addressing a variety of applications such as space, aerospace and defense, metrology, spectroscopy, medical instrumentation, test & measurement and material analysis. The company started as a rapidly growing spin-off from the Ferdinand-Braun Institut in 2002 and is part of the Munich-based TOPTICA Group since 2013.

For more information, please visit our website: <https://www.toptica-eagleyard.com>