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## Press Release

### PRODUCT LAUNCH:

### Tapered Amplifier in standard butterfly package

**Berlin/Munich, Germany, January 5<sup>th</sup>, 2022 TOPTICA eagleyard is ready to set new standards with the launch a tapered amplifier in a standard butterfly package at this year's Photonic West**

At this year's Photonics West taking place in San Francisco from Jan 25<sup>th</sup>-27<sup>th</sup> TOPTICA eagleyard will launch another extraordinary product: a tapered amplifier in standard butterfly package.

Based on the already proven tapered amplifier product portfolio, two new variants will be introduced with a new package solution that brings along multiple advantages. Both offer a simple pluggable solution that is easily usable for industry purposes as the tapered amplifier is integrated into a hermetically sealed butterfly package and is therefore very robust. It is very easy to use as adjustment is not further needed. Moreover, the circular beam profile is beneficial for fiber coupling and focusing.

These new variants of the tapered amplifier will mainly be used in spectroscopy and atomic clocks and will also be relevant in quantum technology. Due to the ease of use, the robustness of the package and therefore scalability, not only research applications will benefit from this innovation but commercial and industry requirements are more easily fulfilled than with already available solutions. This will lead to outstanding results and applications along the value chain. As examples, sensing human neuro activities for diagnostics, detecting tumors or brain-controlled exoskeletons could develop from research projects to scalable industrial production with the support of this industry-friendly new product.

Once again, TOPTICA eagleyard closes the gap between science and industry for an exciting and highly developed future.



**Major performance indicators are:**

- 2 W @ 852nm
- 3 W @ 780nm
- Keeps line width from seeder (~300 kHz)
- Very good SMSR (typ. > 50 dB)
- Integrated beam collimation
- Integrated thermal management by thermoelectric cooler and thermistor
- Plug and play with fiber pigtail seed lasers

**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>