A Passion for Precision.

TOPTICA Photonics AG
Lochhamer Schlag 19
D-82166 Graefelfing / Munich

Contact:

Marketing
Elke Marchthaler
Phone + 49 89 85837-123
Fax + 49 89 85837-200
elke.marchthaler@toptica.com

Sales
Dr. Manfred Karlowatz
Phone + 49 89 85837-114
Fax + 49 89 85837-200
manfred.karlovatz@toptica.com

www.toptica.com/page/news.php

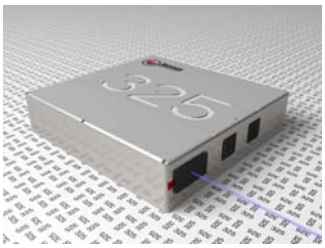
Press Release

May 29, 2009

New: OEM Type 325 nm Diode Laser

TOPTICA demonstrates the power of diode lasers: 50 mW power @ 325 nm, tunable, highest coherence length, compact package

TOPTICA Photonics the market leader in high-quality harmonics generation of cw-diode lasers for demanding scientific applications unveils a new platform of frequency converted OEM type diode laser modules. For the first time an OEM 325 nm diode laser will be shown at the LASER World of PHOTONICS 2009, with a live demonstration at the booth.



TOPTICA's OEM SHG 325 nm.

The OEM 325 nm demonstrator delivers 50 mW @ 325 nm, with a spectral line-width of less than 5 MHz (coherence length > 50 m guaranteed), in TEM_{00} beam quality and at stable linear polarisation of bigger than 500:1. As one would expect from modern diode laser modules, it comes in a much more compact package when compared to traditional HeCd lasers. Furthermore, low power requirements (several Watts) and non stringent cooling requirements (no water cooling, no fan) are strong arguments in favour of this new development.

The OEM 325 nm laser has been designed with applications in mind that need maximum flexibility or are wavelength sensitive: tunability of +/- 1 nm sets a new standard for OEM UV lasers.

"The calling from many customers, to make working with lasers at 325 nm more reliable, convenient and most of all more cost effective, became really loud. The OEM concept we are presenting now, demonstrates the huge versatility of diode lasers. We succeeded in improvements of many relevant specs of HeCd lasers and add useful features like tunability to the system." says Thomas Weber, President of TOPTICA Photonics.

At this point of time demonstration units are available for qualification, with a

Author:
Dr. Manfred Karlowatz, TOPTICA Photonics AG

clear roadmap for a highly integrated version of the OEM 325 nm diode laser to come in the near future.
Of course, other wavelengths in the UV are accessible based on the OEM SHG platform - potential OEM partners are therefore invited to specify their parameter space for their customized solution.

This new platform will be shown at the TOPTICA booth during the LASER World of PHOTONICS, B1.115.

TOPTICA Photonics AG develops, manufactures, services and distributes technology-leading diode and fiber lasers and laser systems for scientific and industrial applications. Sales and service is offered worldwide through TOPTICA Germany and its subsidiary TOPTICA USA, as well as all through 14 distributors. A key point of the company philosophy is the close cooperation between development and research to meet our customers' demanding requirements for sophisticated customized system solutions and their subsequent commercialization.

Author:
Dr. Manfred Karlowatz, TOPTICA Photonics AG