

Innovative laser series “QuixX”: Flexible Picosecond Diode Lasers

With its new “QuixX” laser series, laser specialist Omicron in Rodgau offers innovative flexibility of picosecond diode lasers.

Rodgau (rd) – With the innovative “QuixX” laser series, the German laser expert Omicron provides compact laser modules with fully integrated driver electronics, high precision temperature regulation and beam shaping optics. The laser is able to emit ultrashort pulses down to 50 picoseconds with user-adjustable pulse shape as well as continuous wave (CW) in combination with fast analogue modulation and digital gating / shuttering in the megahertz range.

In picosecond operation, QuixX offers a “narrow-pulse” mode with pure Gaussian pulse shape. In “wide-pulse” mode, the laser is able to emit longer pulses up to 1 nanosecond and higher peak powers. For even more flexibility, a so called “expert mode” allows the user to adjust the pulse-shape to the exact needs of the application. Both CW and picosecond operation offer the possibility for laser intensity and peak power modulation with up to 3 megahertz. Furthermore the modules have got an electronic shutter function which can switch the emission in full on/off regime at a bandwidth of more than 150 kilohertz. In pulsed mode the repetition rate can either be triggered by an external synchronization signal, or it can be generated by the internal, programmable frequency generator with up to 100 megahertz. The delay generator for the SYNC output can be used to synchronize external devices with up to 28 nanoseconds pulse-to-sync delay and 10 picoseconds resolution. The QuixX systems are available with up to 500 milliwatt optical output power in single-mode and wavelengths between 375 and 2090 nanometer. The light output can be either free-space or fibre-coupled with high efficiency.

The QuixX modules can be integrated into new or already existing applications via its RS-232 and USB-2.0 interfaces in an optimal way. For easy use, a comfortable control software is included in delivery. Typical applications are time-resolved single photon counting, spectroscopy, fluorescence microscopy including FRAP, TIRF, FLIM and STED as well as the use as seed or pump laser for fibre lasers and MOPA systems.

Serial production of the new QuixX picosecond diode lasers by Omicron already started and the lasers will be presented at the world-leading exhibition „Photonics West“ in San Francisco, January 30th to February 2nd, 2017.

For further information please refer to www.omicron-laser.de +++

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About Omicron

Since 1989, Omicron has been developing, building and producing innovative laser systems. With a highly qualified team Omicron specialized in customized solutions for applications in the fields of medicine, research, biotechnology, such as microscopy and flow cytometry, digital imaging and optical data storage as well as quality assurance and measurement engineering. Product development and production comply with European and US guidelines. A broad band of laser sources in the range of UV VIS/IR is available to satisfy individual customer requirements. Omicron offers single light sources as well as complete system solutions. Omicron pursues the objective of being an industry leader in product development and has not only set trends in laser technology but also has drawn worldwide attention with its developments.

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