

# Press Release

For immediate release  
2 May 2012



## **PicoQuant introduces new picosecond pulsed diode lasers at 395 nm and 420 nm**

**The Berlin specialist in single photon counting applications extends its number of available laser heads to more than 50 different wavelengths between 375 nm and 1990 nm**

**Berlin (Germany), 2 May 2012** – PicoQuant GmbH announces the extension of its range of picosecond pulsed diode lasers with two new laser heads emitting at 395 nm and 420 nm. With these new types, already more than 50 different laser heads operating at wavelengths between 375 nm and 1990 nm are now available.

The two new laser heads are ideal for exciting e.g. porphyrin or phthalocyanin containing samples in fluorescence microscopy or fluorescence spectroscopy. With pulse durations as short as 70 ps, they are perfectly match the time resolution of mainstream detectors, yet at a price much lower than of mode-locked lasers or nanosecond flashlamps. The two laser heads are also available in a dual mode version that allows picosecond pulsed as well as continuous-wave operation.

With the release of the new models, PicoQuant's diode laser family "LDH Series" now covers the entire wavelength range from 375 nm to 1990 nm. All laser heads come with collimator optics that can optionally be fitted with optical fibers. The new 395 nm and 420 nm laser heads are compatible with PicoQuant's family of diode laser drivers "PDL Series".

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## Technical Data

### LDH-P-C-395

Center Wavelength 395 nm  $\pm$  10 nm

Repetition rate from single shot to 40 MHz

Pulse width < 70 ps (FWHM) at average power 1.0 mW at 40 MHz repetition rate

Pulse width < 300 ps (FWHM) at average power 5.0 mW at 40 MHz repetition rate

Average output power in continuous-wave mode: 30 mW

### LDH-P-C-420

Center Wavelength 420 nm  $\pm$  10 nm

Repetition rate from single shot to 40 MHz

Pulse width < 70 ps (FWHM) at average power 0.7 mW at 40 MHz repetition rate

Pulse width < 300 ps (FWHM) at average power 5.0 mW at 40 MHz repetition rate

Average output power in continuous-wave mode: 30 mW

For further details see also <http://www.picoquant.com/ldh/ldhseries.htm>

## About PicoQuant

PicoQuant GmbH is a research and development company in the field of optoelectronics. The company was founded in 1996 and is based in the science and technology park Berlin-Adlershof, Germany. The company is a worldwide leader in the field of single photon counting applications. The product line includes pulsed diode lasers and LEDs, photon counting instrumentation, fluorescence lifetime spectrometers and time-resolved confocal microscopes. PicoQuant employs currently around 50 people. Since April 2008 Sales and Support in North America is handled by PicoQuant Photonics North America Inc.

## Attachment

One picture of new laser heads

Caption: „Laser heads emitting at 395 nm and 420 nm for exciting samples in fluorescence microscopy and spectroscopy”

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