

Welcome to nanoplus

Dedicated to innovative lasers nanoplus was founded in 1998 by former members of the department of Applied Physics at Würzburg University, which focuses on research on novel types of semiconductor lasers.

Since then, nanoplus has undergone a continuous series of expansions, which have propelled the company into its position as an internationally leading supplier of single mode lasers at any customer-selected wavelength between 760 nm and 2900 nm as well as for a wide variety of wavelengths in the Mid- infrared up to 12 μm .

Being at the forefront of the technological development in its product areas, nanoplus is proud to have introduced into the market the following worldwide firsts:

2009 Record-breaking long wavelength single mode DFB laser diodes commercially available at 2.9 μm

DFB laser diodes for Cs clock applications at 852 nm and 894 nm with 100 mW output power and linewidths < 1 MHz demonstrated

2008 Space-qualified 2.7 μm laser diode package available (supplied for NASA Mars Science Laboratory mission) 2006 Temperature insensitive 1.3 μm InGaAs quantum dot DFB lasers for 10 GBit/s transmission

Widely tunable single-mode quantum cascade lasers at 10.7 μm demonstrated 2004 2740 nm single mode laser 2003 2330 nm single mode laser

2002 CIS lifetime tester 2001 2004 nm single mode laser

2001 1310 nm single mode quantum dot laser

1999 1684 nm metal grating single mode laser

nanoplus production sites

In 2002 the company opened its first fabrication site in Gerbrunn near Würzburg. The site includes clean room space for laser technology as well as test laboratories and office space. A second fabrication site with additional clean room facilities was put into operation in the city of Meiningen in 2009.

The technology labs at the two sites comprise complete laser processing capabilities including semiconductor epitaxy for laser layers, electron beam lithography, optical lithography, contact metallization, mirror passivation etc.

nanoplus is an ISO 9001 certified company.