PRESS RELEASE
For Immediate Release
No. 1268

DILAS Demonstrates Scalable,
High-Brightness and High-Efficiency
Fiber-Coupled Diode Laser Results

Mainz, Germany, January 24, 2012 – DILAS, the diode laser company, has developed a
modular diode laser concept combining high power, high brightness, wavelength stabilization
and low weight, important requirements for a multitude of applications.

Through the optimization of semiconductor chip structures and optical parameters, DILAS has
developed the tailored bar (T-Bar) architecture, delivering high beam quality and high power
using standard micro-optic fast-axis collimators (FAC) and slow-axis collimators (SAC), all
assembled with automated processes. The device is a monolithic multi-emitter source which
takes advantage of handling multiple emitters during each individual manufacturing step in
order to lower complexity and enhance reproducibility of the beam quality and, hence, the
fiber coupling.

Lab results demonstrated that the optical output power is scaled from 180W coupled into a
100μm NA0.22 fiber up to 1.7kW coupled into a 400μm NA 0.22 fiber. In addition,
a lightweight laser unit with an output power of more than 300W for a 200μm NA0.22 fiber with
a weight vs. power ratio of only 0.9kg/kW can be presented.

DILAS’ tailored bar product line is ideal for research and development usage in direct diode
applications as well as for fiber and solid-state laser pumping and for defense technology
which requires robust but lightweight high-power diode laser sources in combination with high
brightness.

About DILAS
DILAS, the diode laser company, is focused on delivering the most innovative technologies
and advanced product solutions in the industry. Founded in 1994 in Mainz, Germany, with
operations in North America and Asia, DILAS designs, develops and manufactures quality
high-power, high-brightness semiconductor laser components, modules and systems,
including fiber-coupled products for worldwide distribution. For more information about DILAS,
including product updates, visit the company’s website at www.DILAS.com.

PRESS CONTACTS
Sandra Garcia – DILAS Global Marketing
Phone: +1 (520) 282-5984
Email: s.garcia@dilas-inc.com

Nadine Yüksel – DILAS Europe Marketing
Phone: +49 (0) 6131-9226-185
Email: n.yueksel@dilas.de

Nicole Xu – DILAS China & Taiwan Marketing
Phone: +86 (0) 21-6855-2216
Fax: +86 (0) 21-5027-3793
Email: nicole.xu@dilas-china.com.cn