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FOR IMMEDIATE RELEASE

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Quintessence Photonics Corporation (QPC) Redefines Power Laser Diode Technology

(Sylmar, Calif.) – Quintessence Photonics Corporation (QPC) announced the successful development of a 2 Dimensional Monolithic High Power Array on June 1, 2004 at its corporate headquarters in Sylmar, California.

Quintessence Photonics Corporation (QPC), pioneers in laser diode technology, has successfully developed a Two Dimensional (2D) Monolithic High Power Array. These new power laser diodes emit light from the surface of the semiconductor wafer in which they were fabricated. The optical output of 75 surface emitting laser diodes arranged in three rows of 25 exceeded 100 Watts during the demonstration and is scalable to over 1000 Watts.

This level of performance sets the stage for a demonstration of direct diode welding in the fourth quarter of 2004. Using these miniaturized and brighter components has attracted substantial interest from the industrial and defense industries.

“This “surface emission” of high power optical radiation will allow miniaturization and cost reduction of laser diode components used in numerous industrial and medical tools,” said Jeffrey Ungar, Chairman of the Board and President of Quintessence Photonics Corporation. “Our unique surface emitter designs will also permit higher optical brightness and reliability”

By contrast, conventional laser diodes are laborious to fabricate. They require separation from each other and additional processing before use. In order to prevent exposing the ends of the cavity to atmosphere, dust and moisture requires individual and delicate coolers to be stacked on top of each other – one for each laser “bar” holding only a single row of diodes.

About QPC

Quintessence Photonics Corporation manufactures advanced technology high power laser diodes and arrays for industrial, military and medical applications. For more information please contact Mr. George Lintz at (818) 833-4668 or by email at info@qpc.cc