



## Advanced Photonix, Inc. Announces a One KHz Addition to the T-Ray(R) 4000 Product Platform

ANN ARBOR, Mich., Aug 06, 2009 /PRNewswire-FirstCall via COMTEX News Network/ -- Advanced Photonix, Inc. (NYSE ASE: API) announced today that Picometrix, LLC, an API company, introduced a new addition to its T-Ray((R)) 4000 product platform. The T-Ray((R)) 4000, introduced in 2007, is the first compact, high-power terahertz system. It is targeted at the application research, non-destructive testing and on-line process control markets. The recent addition to the product platform is a new high-speed control unit that collects 1000 waveforms per second (10 times faster than the previous model).

Using the patented, optical fiber coupled terahertz sensors, 2D and 3D images can be generated to detect thickness, density, moisture content, delamination and structural health. Picometrix terahertz systems have been used to perform non-destructive testing on ancient artwork, pipeline repairs, ground based and aircraft radomes, integrated circuits, and the Space Shuttle. Now all of these inspections can be performed more quickly and reliably.

Dr. Matt Reid at the University of Northern British Columbia is using the new kilohertz T-Ray((R)) 4000 to provide cost savings and process control in the wood processing industry. Dr. Reid describes the T-Ray((R)) 4000 as "the fastest and most robust pulsed THz system in the world [which] makes tomorrow's real-time industrial THz scanning applications a reality today." His work is being conducted in conjunction with the College of New Caledonia, the Ministry of Forests and Range, and Del-Tech Manufacturing.

Del-Tech is a primary manufacturer of biomass-fuelled systems that supply thermal energy for lumber kilns, material dryers, board presses, power generation, and plant heating systems. Del-Tech is also a designer of manufacturing machinery for the forest industry.

Irl Duling, Director of Terahertz Business Development at Picometrix, commented, "With the introduction of the new kilohertz controller, producers can improve the efficiency of their manufacturing process, reducing waste while improving product quality and Picometrix demonstrates our commitment to continue to supply the world's best-integrated terahertz systems."

About Advanced Photonix, Inc.

Advanced Photonix, Inc.(R) (NYSE Amex: API) is a leading vertically integrated optoelectronic semiconductor manufacturer of optoelectronic solutions, high-speed optical receivers and terahertz instrumentation to a global OEM customer base. Products include patented silicon (Si), indium phosphide (InP) and gallium arsenide (GaAs) based APD, PIN, and FILTRODE(R) photodetectors; high-speed optical receivers; and the T-Ray(TM) 4000 THz product platform. More information on Advanced Photonix can be found at <http://www.advancedphotonix.com>.

Forward-looking Statements:

The information contained herein includes forward looking statements that are based on assumptions that management believes to be reasonable but are subject to inherent uncertainties and risks including, but not limited to, risks associated with the move of our wafer fabrication facilities, technological obsolescence of existing product lines and technological obstacles which may prevent or slow the development and/or manufacture of new products, limited (or slower than anticipated) customer acceptance of new products which have been and are being developed by the Company and a decline in the general demand for optoelectronic products.

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