

## **NEWS**

*For Immediate Release*

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### **LIGHTTIME TO PRESENT MEMS LADAR TECHNOLOGY AT MILCOM 2005**

*MEMS LADAR Can Enable Compact, Low-Cost Scanners for the Individual Soldier*

Oshkosh, WI – October 17, 2005 – LightTime™ LLC, a privately-held developer of high-performance optoelectronics technology, today announced that the Company's latest LADAR (laser radar) technology for military applications will be presented at MILCOM 2005. Dr. James Siepmann, LightTime's Chief Research Officer, will be presenting "Integrable Ultra-Compact, High-Resolution, Real-Time MEMS LADAR for the Individual Soldier," which describes practical technologies that allow integration of high-resolution 3D LADAR units into a soldier's helmet or other field-portable equipment. MILCOM 2005, the premier international conference for military communications, will be held in Atlantic City, New Jersey on October 17-20. Dr. Siepmann's presentation will be given Oct 20 at 9:50 am.

"LightTime has developed the technology to make compact and portable LADAR feasible," said Clark Caflisch, president and CEO of LightTime. "By applying the latest advances in MEMS scanning mirrors, we have designed practical LADAR systems that could, for example, be integrated into a soldier's helmet, for target recognition and analysis. This in turn can enable capabilities such as complete battlefield 3D imaging through the integration of GPS and networking of individual soldiers LADAR units."

Miniaturized scanning 3D LADAR has been a goal of the military for years, but has not been practical until now because of limitations imposed by available optical scanning technology. LightTime's design uses the latest MEMS (Micro Electro-Mechanical Systems) scanning mirrors and novel angle amplification systems to offer compact, economical LADAR systems with large field of views and real-time imaging. LightTime's analysis indicates that devices are practical that would operate from 1 to over 100 meters, with a range resolution of less than one centimeter, a 40+ degree field of view, and a 320 x 240 display resolution. Systems could also be designed to transmit range, intensity, color, and GPS coordinates in order to build 3D surveys of the battlefield.

“Based on LightTime’s design and technology, the next generation of LADAR scanners could be built at a cost at least an order of magnitude lower than today’s LADAR devices,” continued Caflisch, “and their small size, high resolution, and low cost opens up a wide range of real-time applications, both military and commercial.”

In addition to target detection and analysis for individual soldiers, military applications of MEMS-based 3D Ladar imaging include navigation for manned or remotely operated vehicles, remote surveillance, and 3D mapping. LightTime's LADAR development team is currently incorporating the Company's proprietary technologies into an OEM real-time MEMS-based LADAR system for these as well as many other applications. LightTime LADAR technologies are also available through licensing agreements. The Company is also forming strategic partnerships with qualified organizations. Engineering samples of the Company's technologies will be produced in collaboration with these strategic partners' development programs. For additional information, please contact LightTime.

#### **About LightTime**

LightTime™ LLC is a privately held optoelectronics development company founded in 2000. LightTime's mission is to develop and commercialize LADAR imaging systems, optical clocks, modelocked lasers, and multi-wavelength sources that substantially outperform incumbent technologies. The Company has developed core technologies for two types of optical clocks: a passively modelocked semiconductor laser and an actively modelocked fiber laser. LightTime's products are based upon internally developed, proprietary and patented technologies. Major opportunities exist for LightTime's technologies in microprocessors, telecommunications components, LADAR systems, MEMS-based image amplification devices, and optical scanning applications. LightTime is a Wisconsin Limited Liability Company with operations located in Oshkosh, Wisconsin, and sales and marketing offices in Belmont, California. More information about LightTime can be found at [www.LightTime.com](http://www.LightTime.com).