



XinRay Systems LLC Awarded \$1.13 Million Contract to Develop Advanced X-ray Source for High Throughput Baggage and Cargo Screening

XinRay to develop and evaluate advanced carbon nanotube (CNT) cold cathode multiple beam x-ray sources for Computed Tomography (CT) based Explosive Detection Systems

Research Triangle Park, NC, September 9, 2009— XinRay Systems LLC, a developer of advanced x-ray sources, announced today that it has received a research contract to develop, test and evaluate advanced carbon nanotube (CNT) cold cathode multiple beam x-ray sources for use in high throughput baggage and cargo explosives detection systems (EDS). EDS is one of the technologies currently used to screen checked baggage in the US and abroad. The approach promises improved imaging resolution and related detection capabilities, reduced false alarm rates, reduced power consumption, reduced heat load, improved baggage throughput and enhanced ruggedness and responsiveness over existing thermionic x-ray sources.

Dr. Moritz Beckmann, CEO of XinRay Systems, said, “Our distributed x-ray sources based on carbon nanotube technology enables multiple beam, high resolution, fixed x-ray tubes to be positioned around a CT tunnel and triggered sequentially, thereby eliminating the need for a rotating gantry. The intent is to develop faster scanning speeds with potentially better throughput and image quality as compared to today’s EDS scanners.”

The Explosives Detection Subgroup of the Combating Terrorism Technical Support Office awarded a contract on August 10, 2009 to XinRay Systems LLC of Research Triangle Park, North Carolina, with a \$1,127,988 10-month base effort. With options, the contract totals \$2,677,946. The research is funded by the Department of Homeland Security Science and Technology Directorate through the Technical Support Working Group (TSWG).

XinRay Systems LLC is a joint venture of Xintek, Inc. and Siemens Medical Solutions. XinRay develops and manufactures carbon nanotube -based multiple-beam x-ray sources for a broad range of applications including diagnostic medical imaging and treatment, security screening, and industrial inspection.

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