

Field Forensics, Inc.: Fast Detection of Explosives

THE LLNL TECHNOLOGY

E.L.I.T.E.TM (Easy Livermore Inspection Test for Explosives), a credit-card sized device that tests for dozens of different explosives and yields quick results. The technology won a 2006 R&D 100 Award, and the finished product received a 2006 Excellence in Technology Transfer Award from the Federal Laboratory Consortium.

COMPANY

Field Forensics, Inc, a small business in St. Petersburg, Florida, supports law enforcement, military, and, government forensics laboratories and first responders with field sampling devices. They include tools for detecting explosives on the spot and for sampling organic molecules (drugs, hazardous materials, explosives, and chemical weapons) for rapid analysis. Field Forensics brought E.L.I.T.E.TM to market in just months to meet an international need.

PRODUCTS

This 5 x 7.5-centimeter device weighs about an ounce and is self-contained, easy to use, and yields results in less than two minutes. It is inexpensive and requires minimal training. E.L.I.T.E.TM cards are useful for screening vehicles, containers, and people for explosives residue. After a card has been used, it can be discarded without special handling.



Pocket-sized E.L.I.T.E.TM Explosives detector

IMPACT

E.L.I.T.E.TM is the only product sensitive to a broad range of explosives that is sufficiently cheap, reliable, and simple to be distributed to every policeman, special forces squad, police car, military vehicle, and fire brigade. E.L.I.T.E.TM is the first product to provide a distributed explosives detection network. The mere idea that every policeman has the E.L.I.T.E.TM card will be reassuring to the public and a worry for would-be terrorists. E.L.I.T.E.TM is currently used by several state and local police units in the US and abroad, the TSA, the FBI, and the US Army. E.L.I.T.E.TM is also used by commercial security for the protection of several nuclear power plants, cruise lines, and the largest oil refinery in North America.



High-color responses to trace amounts of explosives



“Acceptance and use of the E.L.I.T.E.TM continues to grow as people see and understand the positive impact the E.L.I.T.E.TM can have in making it ever more difficult for terrorists to operate without being detected. In independent tests of the E.L.I.T.E.TM by police and military units throughout the world we repeatedly hear, “the E.L.I.T.E.TM does exactly what you say it does.” Since the E.L.I.T.E.TM does so much, there is no greater endorsement.”

Craig Johnson
President & CEO
Field Forensics, Inc.