

Perceptive

Itemiser[®] Desktop Explosives
and Narcotics Detection



Trace detection where you need it, when you need it.

Portable narcotics and explosives detection from GE

Used alone or as a complement to X-ray scanners, metal detectors and canine patrols, the Itemiser® closes security loopholes by reliably detecting residue from explosives and narcotics on skin, clothing, parcels, bags, cargo, vehicles and other surfaces.

The Itemiser® from GE is a powerful countermeasure that gives you the upper hand in the war on drugs and explosives. Detecting telltale molecules of contraband in residue, and even in vapors, the Itemiser acts on the slightest wisp of data with a level of accuracy and reliability unmatched by any detection system in its class.

The Itemiser is the first trace detector that simultaneously processes both positive and negative ions. This enables it to use a single sample to test simultaneously for the presence of all targeted drugs and explosives. As a result, more samples can be processed with greater efficiency and less inconvenience to the test subjects. In fact, results are obtained in about seven seconds.

Portable detection ready at a moment's notice

The Itemiser is designed with portability and flexibility in mind. It offers a compact footprint, folding touchscreen and easy-carrying handle. Thanks to its battery backup feature, the Itemiser stays warmed up and ready for action even when it's on the road. Optional 12 VDC operation means it can be run from a vehicle power outlet for added mobility or for instant-on capability during extended journeys between sites.

This portability makes it ideal for multi-location spot-checks and random testing for contraband – without the need for a large capital investment in redundant equipment. The Itemiser's ability to get up and running quickly at virtually any location also makes it a powerful deterrent.

Easy to maintain, inexpensive to operate

With other trace detection systems regular replenishment of filters, dryers, dopants, chemical modules and gas bottles can drive operating costs as high as the initial purchase price within as little as three months. Thanks to its patented regenerating dryer, the Itemiser does not require costly desiccants to keep it operating at peak efficiency. It's ingenious semi-permeable membrane also cuts down on maintenance by protecting the system from dirt, dust, and humidity, which gives the Itemiser the staying power that's needed for reliable and accurate performance even under the most demanding operating conditions.

Fast, reliable results in an easy-to-use package



The optional vacuum draws vapors into a sponge-like trap

Easy-to-use operator interface leaves nothing to chance

Built-in printer for instant hard-copy results or off-site reports

Sample port accepts particle swipes or vacuum traps

Flexibility built right in...

GE's Itemiser desktop trace detector simultaneously analyzes both positive and negative ions, allowing for advanced explosive and narcotic detection from a single sample. It's portability makes it well-suited for spot checks at multiple locations, while its inherent reliability makes it ideal for increased security and as a deterrent in a variety of settings from schools to public utilities.

Reusable particle swipes are drawn across a surface and then inserted into the Itemiser for analysis.

U.S.
T 888-378-2329
F 866-503-3996

Canada
T 519 376 2430
F 519 376 7258

Asia
T 852 2907 8108
F 852 2142 5063

Australia
T 61 3 9259 4700
F 61 3 9259 4799

Europe
T 32 2 725 11 20
F 32 2 721 86 13

Latin America
T 305 593 4301
F 305 593 4300

www.gesecurity.com

© 2005 General Electric Company
All Rights Reserved.

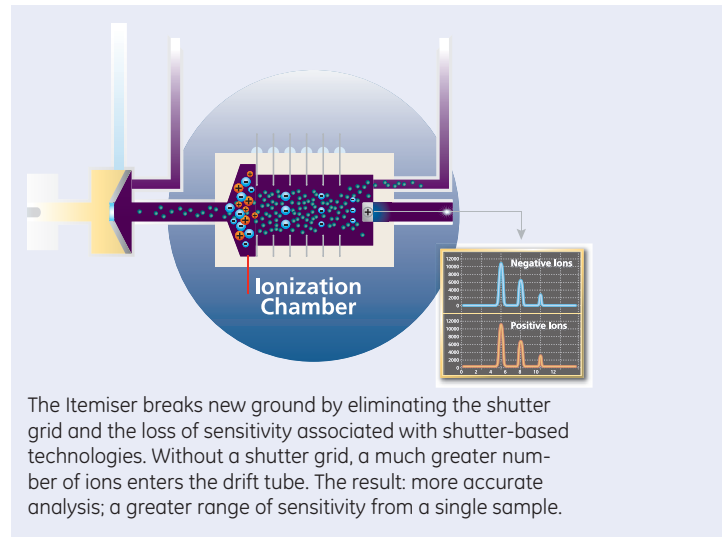
Itemiser and ITMS are trademarks of
General Electric Company.

Dual-mode Detection gets more definitive results sooner

In recent years, The vast array of accessible drugs and explosive materials have expanded beyond the range of substances normally detected by instruments that employ traditional Ion Mobility Spectrometry (IMS). Traditional IMS instruments operate in either positive or negative mode, but not in both modes simultaneously.

While negative mode operation detects the majority of explosives, certain explosives can only be detected in positive mode. Consequently, to rule out the presence of all explosives, conventional IMS detectors require operators to sample and test in one mode, then switch modes and test again.

The advanced technology employed in Itemiser detectors analyzes samples in both positive and negative mode simultaneously. This exclusive dual mode detection means that a single sample is all that's required to detect explosives that would otherwise require two separate tests. GE's dual mode detection has the potential to cut sampling and analysis time in half, thus not only speeding up the sampling process, but also arriving at a definitive conclusion in a much shorter period of time.



The Itemiser breaks new ground by eliminating the shutter grid and the loss of sensitivity associated with shutter-based technologies. Without a shutter grid, a much greater number of ions enters the drift tube. The result: more accurate analysis; a greater range of sensitivity from a single sample.



Itemiser portable trace detection:
Find it. Contain it.



imagination at work