

# GE Security

The Itemiser FX is the world's first direct transfer trace detection instrument that can simultaneously identify explosives and narcotics directly from a finger imprint. In a matter of seconds and one touch, it detects a broader range of contraband without reducing the

amount of substance available for detection. The Itemiser FX is a transportable desktop system for enhanced checkpoint security that can be easy to operate and network.

## Itemiser® FX

### *One Touch Explosives and Narcotics Trace Detection*

#### Potential Checkpoint Security Applications

- Prisons and detention centers
- Customs/border interdiction
- Military checkpoints
- Government buildings
- Public transportation
- High-threat commercial facilities
- Sporting and cultural venues



imagination at work

### Setting the Standard for Self-Screening Checkpoint Security

The Itemiser FX can provide unmatched trace detection of substances while enabling people to screen themselves easily and quickly, with little or no assistance. Transportable and easy to use, the Itemiser FX can deliver precision performance even in high-traffic, dusty and humid environments.

### Self-sampling Can Increase Throughput

At the security checkpoint, an Itemiser FX prompts the user to press the sampling surface. The user is instructed to wait while the finger imprint is analyzed. If an alarm occurs, the unit will instruct the person to ask for assistance. If no alarm is produced, the person is instructed to proceed.

### Secure Data Recording

The Itemiser FX features an onboard computer that collects and logs data automatically, including time, date and sample analysis for each alarm. A complete history of saved data and alarm files can be recalled and printed at any time.

### Remote Monitoring with SecureStation

The SecureStation is a versatile, remote command center that can increase security and efficiency by allowing a single operator to check multiple instruments at a glance. With touch screen access and an easy to view and navigate flat panel display, SecureStation is a convenient and cost-saving networking option.



With just a touch, the world's only direct transfer trace detector delivers instant results to help enhance security, improve efficiency and keep traffic flowing.



With a SecureStation, a single operator can monitor and control up to eight Itemiser FX units from a remote location.

## Features and Benefits

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### Sensitivity / Selectivity

- Direct transfer of threat substance to instrument can increase detectability
  - Patented ITMS® technology can increase ion population, enabling detection of microscopic traces of explosives and narcotics
  - Exclusive switching mechanism simultaneously detects positive and negative ions, allowing the detection of a broader range of explosives and narcotics
  - Simultaneous dual-mode detection can help improve detection of peroxide-based explosives
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### Versatile

- Expandable libraries to accommodate unique user requirements
  - Three default user levels (operator, maintenance and administration) for greater access control
  - Operate using animation, live screen or remote access and control
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### Cost Effective

- Finger imprint sampling wheel obtains test sample without consumables
  - Can reduce capital investments by providing a single solution for both narcotics and explosives detection
  - Remote control and monitoring via a SecureStation can reduce manpower requirements
  - Patented regenerative dryer helps eliminate the need for monthly replacements, reduce maintenance downtime, and lower consumables costs
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### Reliable

- Advanced human peak detection algorithm can enhance reliability in explosives mode
  - Multiple points on sampling wheel can reduce waiting time between samples
  - Semi-permeable membrane excludes dust and dirt to allow for continued operation in environments that have high-traffic, humidity or contamination
  - Automated calibration assures operational accuracy
  - Verification pen confirms instrument performance and reliability
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### Ease of Use

- Intuitive animation makes self-sampling convenient
  - In operator mode, touch screen menus on a graphical user interface can be easy to learn and operate
  - Simple calibration using calibration pen
  - Built-in printer for use as evidence or record keeping
  - Software upgrades can be easy to install
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### Portability

- Weighs 31 lbs/14 kg
  - Built-in handles for easy transport
  - Internal, 30-minute battery allows instrument relocation without having to shut it off, eliminating warm up time
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## Worldwide Locations

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[www.gesecurity.com](http://www.gesecurity.com)

## Specifications

### Detector Type:

Ion Trap Mobility Spectrometer (ITMS®)

### Analysis Time:

Default 8 seconds

### Sample Acquisition:

Direct finger sampling via sampling wheel

### Warmup Time:

30 minutes

### Operating Temperature:

0 to 40°C (32 to 104°F)

### Storage Temperature:

0 to 50°C (32 to 122°F)

### Power:

AC Input: 100-120 VAC, 200-240 VAC, 47-63 Hz, 150W

DC Input: 11-18 VDC input, 10A (150W) max

Battery Backup: Up to 30 minutes of standby time daily for transport

### Computer:

Pentium-based, industrial-grade, single-board computer, solid-state hard disk

### Display:

10.4 in (26.4 cm), 640 x 480 pixel, 300 nits brightness, TFT-LCD monitor with resistive touchscreen

### Signal Processing:

Recognition on multiple peaks and multiple controlled narcotics and explosives

Output to 4 different display types, including bar graph display or time-of-flight plasmagram display

## Dimensions

### Itemiser (with display opened)

Height	14.9 in (38 cm)
Display Clearance	16.3 in (41 cm)
Width	18.9 in (48 cm)
Depth	19.8 in (50 cm)
Weight	31.0 lbs (14.05 Kg)

### Itemiser (with display closed)

Height	7.1 in (18 cm)
Width	18.9 in (48 cm)
Depth	18.0 in (46 cm)

