

GE Security can deliver a key component of the total checkpoint security solution with an EntryScan. A high-throughput, non-intrusive walk-through portal that enables rapid detection of both explosives and narcotics. Microscopic traces of explosives can easily be detected and identified.

In addition, narcotics can also be identified in a nonintrusive manner. EntryScan's patented detection technology allows for the efficient and accurate detection of the most challenging substances.

EntryScan[®]

Walk-through Portal for Explosives and Narcotics Detection

GE Security's walk-through portal can enable the detection of a broad spectrum of concealed explosives and narcotics in seconds.

Applications

- Airports and seaports
- Customs/border interdiction
- Military facilities
- Embassies
- Government buildings
- Nuclear plants
- Petrochemical facilities
- Public utilities
- Prisons
- High-security events





Upward flow of "human convection plume."

Patented ITMS Technology Advantage

GE Security's patented Ion Trap Mobility Spectrometer (ITMS®) technology can detect a wide range of substances with accuracy and speed. ITMS detectors can increase ionization efficiency, the main factor for determining detection sensitivity. Due to the trap and membrane design, ITMS technology operates well in dusty and humid high traffic areas, maintaining its precision performance even in harsh "real world" environments.

Leading Sample Collection Technology

GE's patented Ion Trap sample collection system takes advantage of a natural airflow phenomenon called the "human convection plume." This eliminates the need for forced air from a fan, which would stir up contaminants, dirt and dust, and enables the EntryScan to acquire cleaner samples for higher detection sensitivity. This design requires fewer moving parts resulting in quieter operation, reduced weight and improved long-term reliability.

Easy Operation and High Throughput

The EntryScan automatically controls traffic with a clear visual prompt, signaling individuals to enter the portal. If traces of possible explosives or narcotics are detected, an alarm will sound. By maintaining traffic control, the EntryScan avoids re-screening subjects or allowing individuals to leave the area before complete results are obtained. EntryScan's onboard computer handles all data logging automatically, including time, date and sample analysis for each alarm. A complete history of sampled data can be recalled and printed at any time.

Features and Benefits

Sensitivity / Selectivity

- Patented ITMS® technology can increase ion population, enabling detection of microscopic traces of explosives and narcotics
 - Advanced detection algorithm increases selectivity and minimizes false positives
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Versatile

- May detect a wide range of targeted substances
 - Semi-permeable membrane helps exclude dust and dirt to allow continued operation in environments that have high traffic, humidity or contamination
 - Identifies multiple explosive or narcotic substances from a single sample
 - Expandable libraries to accommodate unique user requirements
 - Automated, visual and audio prompts with customizable settings help control and maintain traffic flow at desired throughput
 - Self-contained, low-noise air system eliminates the need for separate, large air compressor required by other systems
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Cost Effective

- Helps reduce capital investments by providing a single solution for both narcotics and explosives detection
 - Patented regenerative dryer can eliminate the need for monthly dryer replacement and may reduce maintenance downtime and consumables cost
 - Small footprint, unit size, weight and power requirements may reduce installation and operating costs
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Reliable

- Automated calibration helps operational accuracy
 - Maintains a low, stable, humidity level in the detector allowing for consistent and reliable detection results
 - Automatically saves test results, preventing deletions
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Ease of Use

- Touchscreen menus on a graphical user interface can be easy to learn and operate
 - Built-in printer for hardcopy results or printing at a later date
 - Quick analysis and results in approximately 13 seconds
 - Software upgrades can be easy to install
 - Local language options available
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U.S. Transportation Security Administration (TSA) Approved

- EntryScan has completed the TSA trace explosive detection laboratories acceptance testing
 - Deployed to airports, prisons and other high risk facilities
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Worldwide Locations

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Specifications

Detector Type:

Ion Trap Mobility Spectrometer (ITMS®)

Analysis Time:

Default 13 seconds

Sample Acquisition:

Air collection

Power:

220-240V, 20A, 50/60 Hz, single phase

Safety Class I:

Overload/Installation Category 2

Pollution Degree - 2

Moisture Protection - normal (IPXO)

Computer:

Pentium CPU, 64MB SDRAM

Signal Processing:

Recognition of multiple peaks and multiple explosives

Output to bar graph display or time-of-flight plasmagram display

Detection Modes:

Explosives - negative ion mode

Narcotics - positive ion mode

Dimensions

Main Console

Height 55 in (1397 mm)

Width 16 in (406 mm)

Depth 30 in (965 mm)

Portal

Height 102 in (2591 mm)

Width 48 in (1229 mm)

Depth 40 in (1018 mm)

Portal Opening

Height 78 in (1981 mm)

Width 30 in (762 mm)

Shipping Weight

631 lbs (278 kg)

