

# Itemiser® DX

## Explosives Detection in a Desktop System



Simultaneous detection enables the Itemiser® DX desktop to detect a broad range of explosives that meet current market threats. It delivers fast, simultaneous explosives and narcotics detection in a package that is ergonomic and portable.

### Cost Effective

- Patented regenerative dryer eliminates the need for monthly dryer material replacements, and reduces maintenance downtime and consumables costs
- Folding monitor screen automatically shuts off backlight to extend life of display
- New long life positive ion dopant detects peroxide explosives
- Ability to create custom substance libraries

### Reliable

- Automated calibration with optional verification helps assure operational accuracy
- Simultaneous dual mode detection eliminates the need for two detectors, which significantly decreases the possibility of mechanical failure associated with two detector systems
- Maintains a low, stable humidity level in the detector, allowing for consistent and reliable detection results
- Automatically saves test results, preventing deletions
- Robust internal solid-state hard drive for reliable data storage
- Optional maintenance reminders for all preventive requirements

- Advanced diagnostics to ensure maximum availability and performance

### Ease of Use

- Touch screen menus on a graphical user interface can be easy to learn and operate
- Built in printer for fast hard copy results or printing later
- Quick analysis and results in approximately 8 seconds
- Software upgrades can be easy to install
- On-board software keypad
- On-board advance video help files



Partner



**Morpho Detection**  
SAFRAN Group

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## Easy-to-Use Operator Interface

- Onboard computer automatically handles all data logging, including time, date, sample analysis, and system status
- Results require minimal interpretation, allowing operators to concentrate on sample acquisition
- A comprehensive history of saved data and alarm files can be recalled and printed

## Portability

- Lightweight (26.5 lbs/12 kg) with built-in handle for easy transport
- Internal, one-hour battery allows instrument relocation without having to shut it off, eliminating warmup time

## Specifications

### Detector Type:

Ion Trap Mobility Spectrometer (ITMS™)

### Analysis Time:

Default 8 seconds

### Sample Acquisition:

Surface wipe

### Warmup Time (Cold Start):

Allow approximately 30 minutes for system to stabilize

### Operating Temperature:

0 to 40°C (32 to 104°F)  
IP20 protection rating

### 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 60 minutes of standby time daily for transport

### Computer:

AMD Geode® LX800 Processor, 500MHz, fanless, 3.5 in. (8.89) SB  
Typical Power Consumption: +5VDC @ 1.29 Amps

### Display:

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

### Signal Processing:

Recognition on multiple peaks and explosives

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

### Detection Modes:

Explosives (optimized negative/positive ion mode)

### Data Transfer Capability:

Two USB 2.0 ports  
Ethernet port

## Dimensions and Weight

### 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	26.5 lbs (12.02 kg)

### Itemiser (with display closed)

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