

H150E

Handheld Explosives & Narcotics Trace Detector



Security & Detection Systems

Desktop-level detection of explosives and narcotics in a portable system.

The H150E is a handheld explosives and narcotics detector that rapidly detects and identifies trace amounts of a wide variety of military, commercial, and homemade explosives and narcotics.

The H150E offers the outstanding detection performance of L3's widely deployed QS-B220 desktop system. The network-ready system is easy to operate and features a large, high-resolution, daylight-readable color touchscreen. The modernized icon-based interface provides a familiar user experience, allowing for simple and intuitive navigation.

The system's real-time detection algorithm delivers fast results, alerting the operator as soon as a threat is detected. With rapid clear-down and other features that minimize system contamination, the H150E is ready for the next sample within seconds, even after a positive detection.

The presence of a threat is indicated by both visible and/or audible alarms, with the substance identification clearly displayed. Spectrograms, administrative functions, and diagnostics can be accessed and viewed on the integrated 4.3 inch color touchscreen.

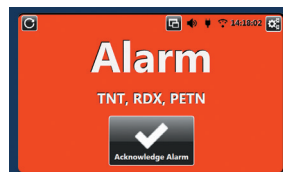
- Detects and identifies explosives and narcotics in seconds
- Desktop-level detection performance in a portable system
- Industry-leading low false alarm rate
- Intuitive icon-based user interface driven by touch or integrated joystick
- Daylight readable, high-resolution color touchscreen
- Rapid clear-down time
- Network-ready with remote diagnostics capability
- Proven non-radioactive ion source
- Safe-ship hot swappable batteries
- Integrated sample trap holder
- Low total cost of ownership

The patented automatic calibration system, inCal™, prevents errors that could result from an uncalibrated instrument. The H150E monitors its environment, senses changes that would affect its analysis, and recalibrates accordingly. Calibration occurs with no user intervention and does not require calibration consumables.

Operation and maintenance expenses are minimized with the H150E, including low consumable costs. Routine maintenance consists of only periodic cleaning using common supplies and desiccant replacement as required.

The H150E's innovative design includes patented non-radioactive ion mobility spectrometry technology, so there are no associated certifications, licensing, inspection, testing or decommissioning costs normally associated with systems that contain radioactive materials.

Designed for flexibility in mind, the H150E features foldable legs which enable the system to easily operate at a fixed location. Combined with an integrated trap holder and ergonomic shoulder strap, the H150E provides the operator with unique, flexible functionality.



SPECIFICATIONS:

GENERAL

Height: 21.3 cm (8.4 in)
Width: 15.2cm (6 in)
Depth: 45.7 cm (18 in)
Weight: 5.2 kg (11.4 lb)

DETECTOR TYPE

Non-radioactive Ion Mobility Spectrometry (IMS)

POWER REQUIREMENTS

AC Input: 100-240 VAC, 47-63Hz 2A (max)
DV Input: 24 VDC

DATA DISPLAY

Integrated high-resolution display
Daylight readable multi-touch
Diagonal Size: 4.3 in
Connections for external monitor & keyboard

WARM UP TIME

Less than 30 minutes (typical)

ANALYSIS TIME

User-selectable, 8-30 seconds (10 seconds default)

CLEAR-DOWN TIME

10 seconds or less (typical)

SAMPLE ACQUISITION

Particulate collection via wiping (wand or with gloved hand)

ALARM METHOD

Configurable visual and audible alarms
Substance identification by name

CONSUMABLE MATERIALS

Low-cost and easily changeable molecular sieve drying agent (desiccant) in prepackaged containers
Sample traps

BATTERIES

Lithium Ion (Li-ion) rechargeable (2 ea)
Up to 3-4 hours operating time per pair of batteries
Batteries are hot swappable to extend battery-only operation time
Internal battery charger when connected to external power
External two-battery charger (AC & DC) available

OPTIONAL FEATURES

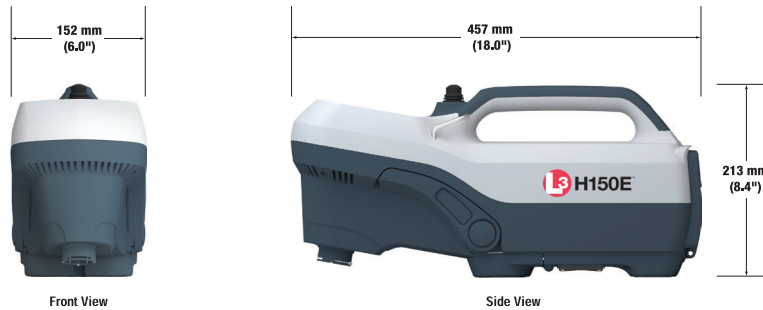
Sample Wand
Spare batteries
External battery charger (AC/DC)
Printing kit

OPERATING ENVIRONMENT

Operating Temperature: -10°C to 55°C (14°F to 131°F)
Altitude: Up to 4,572 m (15,000 ft)
Relative Humidity: 0 to 95%, non-condensing

SUBSTANCES DETECTED

Wide variety of explosives (military, commercial, HMEs)
Additional substances can be added through the user-expandable detection library



Security & Detection Systems

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