The Rapiscan DETECTRA™ HX is a lightweight and ergonomically designed, low cost threat detection tool ideal for military, law enforcement, event, border and infrastructure protection personnel in their efforts to combat terrorism. Combining industry leading, real time Ion Mobility Spectrometry (IMS) technology and sophisticated sampling systems the DETECTRA™ HX provides true hand-held explosive trace detection capabilities.

Operational Flexibility with Advanced Sampling Technology - The Rapiscan DETECTRA™ HX can detect explosive trace in both particulate and vapor form on any surface that may have directly or indirectly absorbed explosive residues. For the most sensitive, accurate and fast detection, a swipe sampling system is included. For scenarios involving large quantities of highly volatile explosives compositions, the DETECTRA™ HX includes a touch-free inhalation sampling method. With its operational flexibility, real-time analysis response, and fast, reliable and specific identification of explosive threats, the DETECTRA™ HX can support a variety of screening scenarios, whether vehicle/people checkpoints, mail screening, cargo, etc.

Detects Broad Range of Explosives - The Rapiscan DETECTRA™ HX detects picogram-nanogram quantities of a broad range of common commercial and homemade explosive materials, including nitrates, peroxides, plastic explosives, and their associated taggants. With a low false alarm rate, the DETECTRA™ HX offers increased detection probability. The system is capable of detecting and alarming on, multiple explosive materials within the same sample.

Reduced Total Cost of Ownership - Designed to minimize operating costs and increase available uptime, the DETECTRA™ HX requires only two consumables and has zero routine maintenance requirements that are typically associated with ETD’s.

Real Time Detection - The fast start-up time, fully automatic continuous self-calibration, optional continuous, or variable timed sampling mode, and <3 second detection time, all make the DETECTRA™ HX ideal for security situations where both high throughput and high detection probability are required.

Easy-to-Operate - Ready to use in less than 8 minutes from cold, with an automated start-up process, the operating interface and 3-button control, make the DETECTRA™ HX easy to use. Operators can be trained in as little as an hour. Alarms can be configured with audible and/or visual detection indicators, on a LCD screen protected by impact-resistant glass, enabling the DETECTRA™ HX to be used in all light conditions and remain resistant to the scratches, drops, and bumps of everyday use.

Exempt from US NRC Requirements - The DETECTRA™ HX uses a unique ionization source with US Nuclear Regulatory Commission (NRC) Exempt Distribution status that has no end-user radiation licensing requirements for use within the United States. International operators should check with their nuclear regulatory agency for local requirements.
DETECTRA™ HX

SPECIFICATIONS

Name and Model
Handheld Explosives Trace Detector model DETECTRA™ HX

Sample Acquisition
Trace particulate and vapour. Contact and non-contact sample collection. Continuous sampling and Timed sampling modes.

Explosives Detected
All major classes of explosives, including but not limited to TNT, C4/RDX, Semtex.

Sensitivity
Picogram - Nanogram level

Scan Time
Continuous scanning mode 3 to 30 seconds

Response Time
1 to 3 seconds

Cold Start-up Time
From 4 to 10 minutes

Operating Temperature
-20°C to +55°C (~4 °F to 131 °F)

Relative Humidity
1 to 100%

Battery Specification
Lithium ion battery fast full charge in 2.5 hours

Battery Capacity and Voltage
4300mAh at 14.4V

Input Power Requirements
14.4VDC, 4300mAh, 69.3Wh supplied by Rapiscan battery pack

Product Dimensions (with battery pack attached)
Length: 294.1 mm (11.58 in.) Width: 141.1 mm (5.55 in.) Height: 275.8 mm (10.86 in.)

Product Weight
1.77 kg (3.90 lbs) with battery pack

Shipped Dimensions
Length: 508 mm (20 in.) Width: 406.4 mm (16 in.) Height: 203.2 mm (8 in.)

Shipped Packing Weight
6.6 kg (14.5 lbs)

PRODUCT STANDARDS AND COMPLIANCE

CE Compliance
NUREG 1556, V3, R1

IEC 61010-1
FCC Title 47 CFR Part 15

IEC 61326-1
CB Scheme

ANSI/HPS N43.8:2008
Tested to MIL-STD-810

REGULATORY

Subject to dual-use export licensing from U.S. & U.K. and radioactive licensing to destination countries. Some exemptions apply.

KIT COMPONENTS

The Rapiscan DETECTRA™ HX Hand-held Trace Explosive Detector kit comes standard with the following:

DETECTRA™ HX (1 unit)
Sample Traps (100 count)
Hard Shell Storage Case
Two (2) Confidence Test Pens
Lithium Ion Battery Pack (2)
Reporting Software CD

Additional component items and consumables are available as needed after initial kit delivery.

APPLICATIONS

- Critical Infrastructure
- Customs and Border Protection
- Defense
- Event Security
- Law Enforcement
- Ports


Rapiscan systems
An OSI Systems Company