Technical Specification

LDS
LASER DETECT SYSTEMS

HDK
Hybrid Detection Kit

Analysis Methods	Raman spectroscopy, Ion Mobility Spectroscopy & Wet Chemistry
Wight	< 20 kg
Dimensions	60 X 50 X 30 cm (LxWxH)
Detectable Forms	Vapors, Traces Particles, Bulks, Liquids, Gels, Powders
Database Management	Remotely via internet
I/O Interfaces	USB, Ethernet, Wi-Fi/Bluetooth
Collection Methods	Sniff, Vacuum, Swab, Vial Sampling
Data Management	Consolidated Reporting
Configuration	Mobile & Stationary
Display	15.6" Colored FHD Touch screen

HDK Technologies

ION Mobility Spectrometry

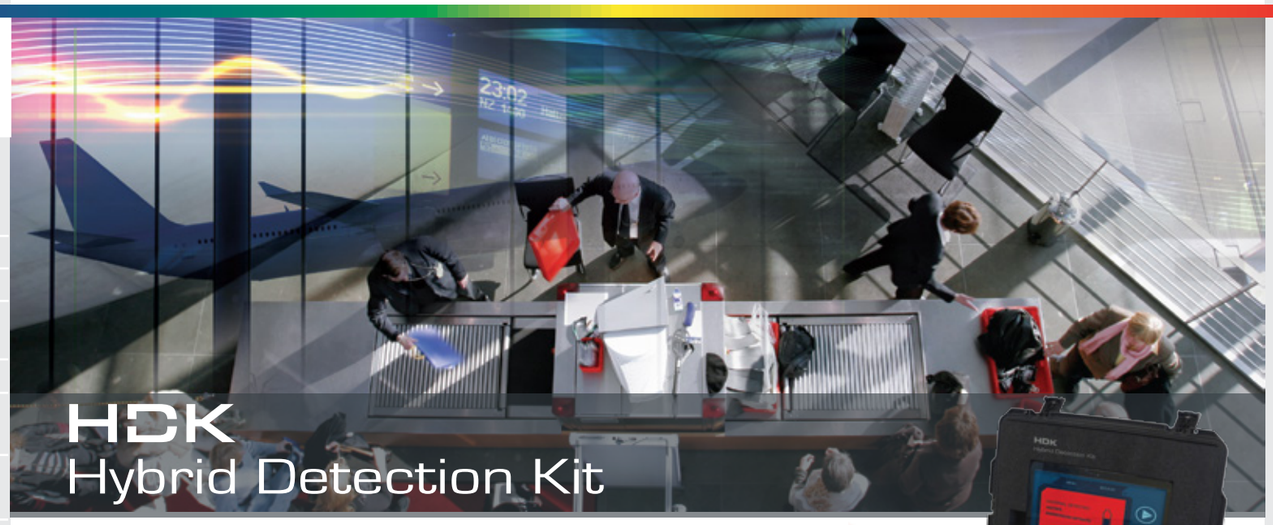
Ionization Polarity	Positive & Negative Simultaneously
Ionization Source	"Corona" - Non-Radioactive
Swabbing Method	Commercial Aluminum Foil
Recovery Time	3 min

Laser Spectroscopy

Laser Wavelength	532 (Optional: 785, 1064)nm
Spectral Resolution	6 - 8 cm^{-1}
Raman Spectral Range	100 – 4500 cm^{-1}
Laser Output Power	≤ 30 mW

Wet Chemistry

Detection Method	Wet Chemistry Detection
Collection Method	Vacuuming & Swabbing
Tested surfaces	Fabrics, Wood, Metal & Plastic
Sensitivity	0.1-1 microgram



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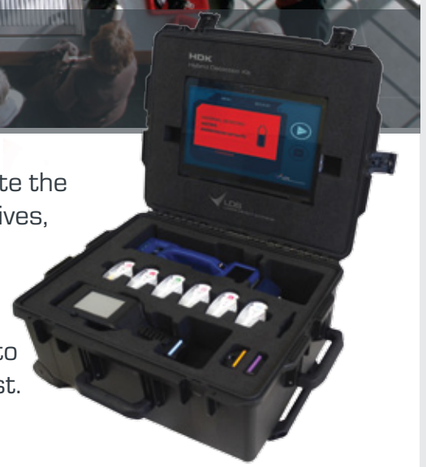


The HDK is a comprehensive solution enabling field teams to execute the entire process of detection, identification and verification of explosives, narcotics and Hazardous Materials (HAZMAT). This kit combines multiple detection and identification methods effective in handling all types and forms of material that the teams may encounter in the field. The kit's integrated sensors have been specially selected to provide the highest level of performance at the most affordable cost.

Key Features

Wide Detection & Identification Spectrum
Multi-sensing, variable-form detection of threats

- Detects trace particles, vapor, liquid, gel, bulk & powder
- Scans people, bags, luggage, bottles & vehicles
- Employs a unique vacuum collection method for wet chemical detection

Advanced Technology & Engineering
Rugged unit incorporating state-of-the art sensors and user-friendly output display

- Central computer for output processing & colored HD display
- Dual-polarity IMS-based detection
- High-efficiency RAMAN detector
- Wet chemistry verification process

Unified Decision Making Support Software
Ground-breaking algorithms enabling consolidated reporting from multiple sensors

- Stores a large substances library
- Unified Log Event & Intelligence module
- Simple, intuitive system reporting
- Precursors mixture alert algorithm

Safe & Environmentally-friendly
User-safe in highly sensitive substance handling as well as environmentally-friendly

- Non-radioactive IMS-based detection
- 532 nm green laser Raman detector with minimum output power at maximum efficiency

Applications

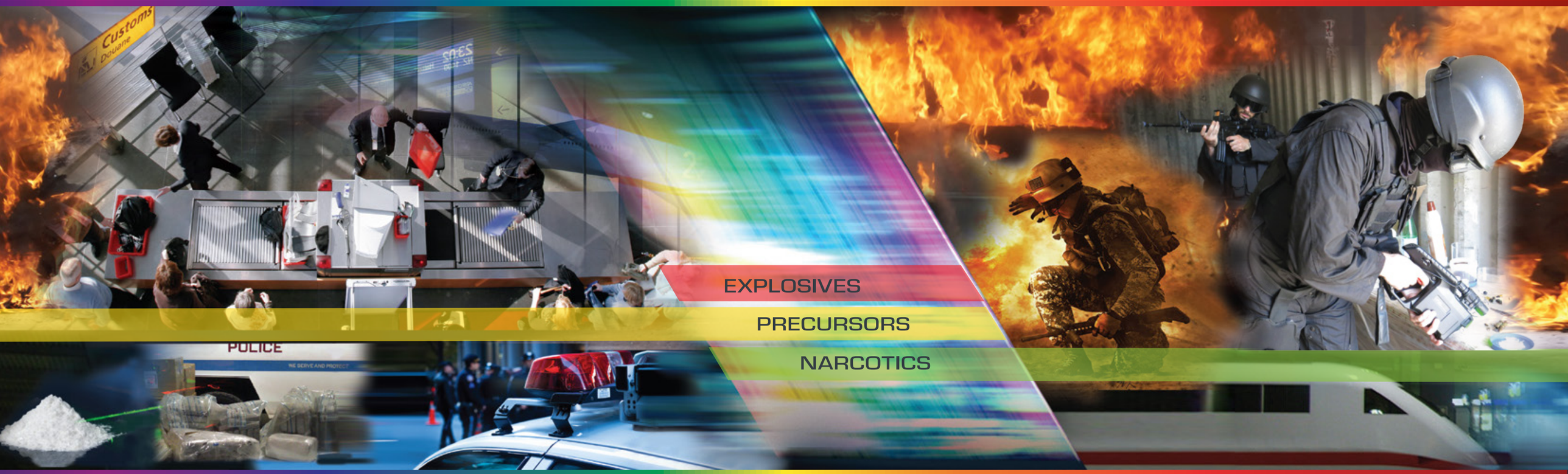
Airports Security	Personal belongings scanning Passengers scanning Gate protection Crew random checks
Critical Infrastructure Protection	Prisons security Power plant security VIP infrastructure protection Mall & casinos security
Check Point & Borders	Vehicles checkpoints Goods scanning Passengers scanning Customs units
Law Enforcement	Federal police Analytic field units EOD units Anti-drugs units Counterterrorism units Fire fighting units
Transportation	Railway stations security Bus station security Seaports security
Mega Events	Olympic games Festivals & concerts Conferences Top-level summits

Kit Expansion

	Spare batteries
	Chargers
	Electricity adapter
	Mini-USB adapter
	Vacuum instrument
	IMS filter
	Sensitivity testers
	Pipettes
2ml	2 ml vials

Hybrid Detection Kit
LDS-8000

HDK



LDS - ALL SPECTRUM DETECTION

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