

Technical Specification



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 I/O Interfaces	Remotely via internet USB, Ethernet, Wi-Fi/Bluetooth
Collection Methods	Sniff, Vacuum, Swab, Vial Sampling
Data Management Configuration Display	Consolidated Reporting Mobile & Stationary 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	Vacuumping & Swabbing
Tested surfaces	Fabrics, Wood, Metal & Plastic
Sensitivity	0.1-1 microgram



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

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

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

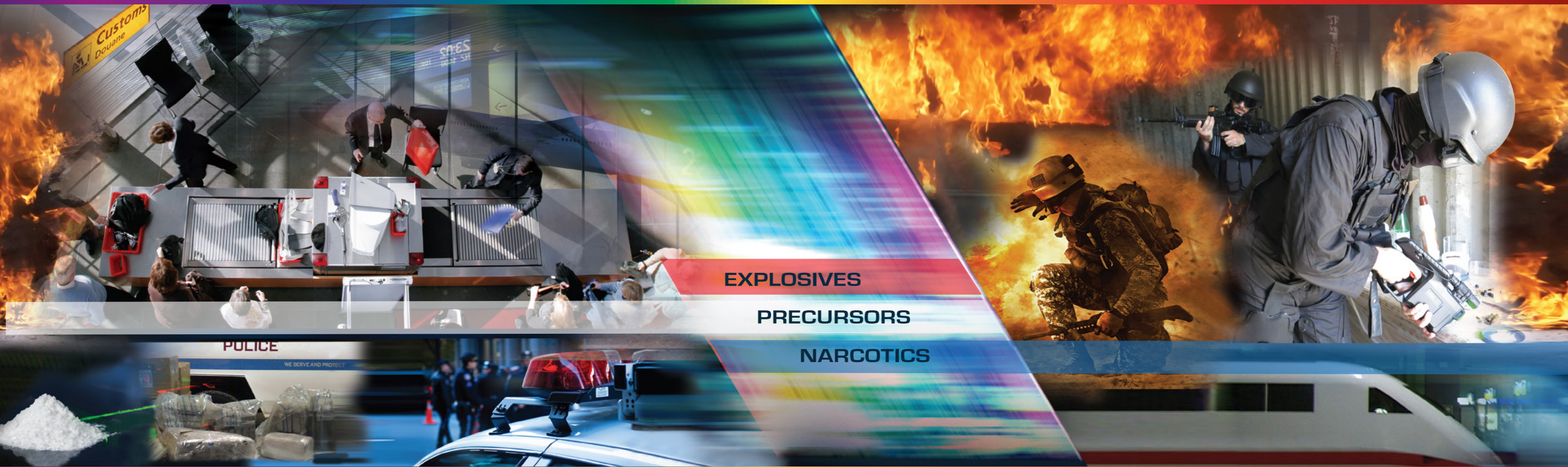
	Personal belongings scanning Passengers scanning Gate protection Crew random checks
	Prisons security Power plant security VIP infrastructure protection Mall & casinos security
	Vehicles checkpoints Goods scanning Passengers scanning Customs units
	Federal police Analytic field units EOD units Anti-drugs units Counterterrorism units Fire fighting units
	Railway stations security Bus station security Seaports security
	Olympic games Festivals & concerts Conferences Top-level summits

Kit Expansion

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

Hybrid Detection Kit
LDS-8000

HDK



EXPLOSIVES

PRECURSORS

NARCOTICS

LDS - ALL SPECTRUM DETECTION

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 **LDS**
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