

Technical Specification



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



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

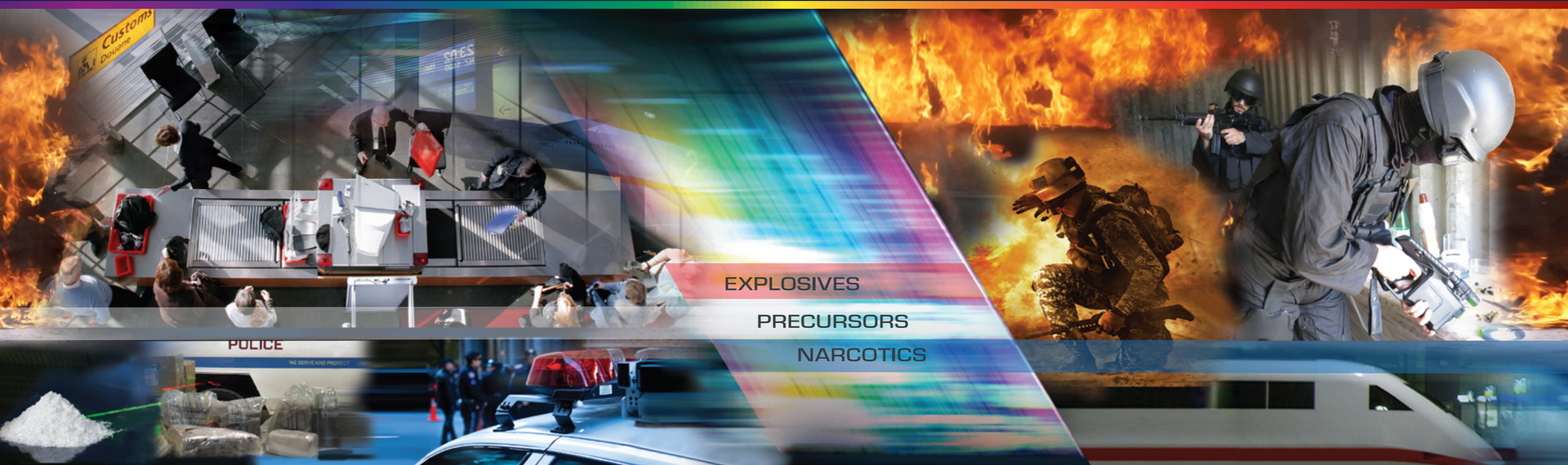
- Airports Security**
 - Personal belongings scanning
 - Passengers scanning
 - Gate protection
 - Crew random checks
- Critical Infrastructure Protection**
 - Prisons security
 - Power plant security
 - VIP infrastructure protection
 - Mall & casinos security
- Check Point & Borders**
 - Vehicles checkpoints
 - 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
- 2 ml vials

Hybrid Detection Kit
LDS-8000

HDK



EXPLOSIVES

PRECURSORS

NARCOTICS

LDS -ALL SPECTRUM DETECTION

LDS LLC USA HEADQUARTERS
28 West Grand Ave. Suite 3
Montvale, NJ 07645, USA
Phone: 1(201) 262 4580

 **LDS**
LASER DETECT SYSTEMS OF AMERICA