



LDS's I-SCAN is a state-of-the-art hand-held snifer designed to detect explosives, narcotics, toxic and other hazardous substances in trace particle and vapor form.

The I-SCAN detection process targets the air surrounding concealed objects, bags, and various surfaces. The I-SCAN is also capable of detecting hazardous traces on human hands and clothing.



Key Features

Highly operative:

Designed to optimize security and flow

Simultaneous detection of drugs and explosives:

Detection of positive and negative ions at the same time

Cost effective consumables:

Short logistic tail, based mainly on Commercial-Of-The-Shelf (COTS) consumables

Non-radioactive ionization source:

lonization source based on a "Corona" chamber power source

- Vapor and trace detection
- Hot swap" battery mode
- Fast cleaning
- Intuitive calibration process
- Long field operational time
- Wide range database of drugs, explosives, and chemical warfare agents
- Precursors & homemade explosives
- Peroxide based explosives
- Commercial aluminum foil swabs
- Low consumption of filter and sensitivity testers
- No need for gas carrier
- Environmentally friendly
- Simple to store and handle

I-SCAN Handheld IMS Explosives, Narcotics & Toxics Trace & Vapors Detector LDS 3500-i















Security

Security

Mega

Infrastructure Protection

Check Point & Borders

Technical Specification

Technology	Ion Mobility Spectrometry (IMS)
Sample collection	Trace particle and vapor
Detector overall dimensions	110x162x410 mm
Weight	<3.7 kg
Measurement range of normalized (reduced)	<u> </u>
mobility of analyzed ions,	$0.5 - 3.0 \text{ cm}^2\text{V}^{-1}\text{s}^{-1}$
Detection range of low-volatile organic substances	
based on 2,4,6 -Trinitrotoluene (TNT)	1.0 x 10 ⁻¹¹ - 2.0x10 ⁻⁷ g
Threshold for detecting low-volatile organic substances	
based on 2,4,6 -Trinitrotoluene (TNT)	
- particulate matter	1.0 x 10 ⁻¹¹ g
- based on vapors	$1.0 \times 10^{-14} \text{g/cm}^3$
Operating mode start-up time	<10 min

O x 10⁻¹¹ g $0 \times 10^{-14} \, \text{g/cm}^3$ 0 min Measurement time <5s

False response probability <1 %

Demonstration movie in You Tube channel







