

Product Overview

The Portable Simultaneous Dual-Mode Explosives and Narcotics Detector is an independently developed and manufactured detection device for explosives and narcotics. Using chromatography Ion Mobility Spectrometry (IMS) technology, it accurately detects trace particles or vapors of explosives and narcotics and reports the identified substance name. The instrument features fast detection speed, high accuracy, simple operation, low missed and false alarm rates, low power consumption, compact size, light weight, portability, easy maintenance, and strong adaptability to different operating environments and requirements for non-medical usage.



Product Advantages

Ultra-Fast Analysis:	Fast detection and analysis; results are available within 3 seconds.
Accurate Detection:	IMS technology accurately identifies hazardous substances and reports the name and type of the detected material.
Automated & Real-Time Service:	Supports automatic calibration, automatic cleaning, automatic self-diagnosis, real-time printing, real-time database/software updates, real-time data storage, and real-time positioning.
Trace Detection:	In actual operation, there is no need to aim directly at the hidden dangerous item. The operator only needs to wipe the package with a sampling swab or point the air-suction probe at the package surface to determine whether hazardous substances are present.
Simultaneous Dual Mode:	Explosives and narcotics can be detected simultaneously without mode switching; one instrument detects and alarms for both at the same time.
Remote Control (Optional):	Data can be uploaded to a back-end system via wired or wireless methods for centralized management, enabling remote status monitoring, result viewing, fault diagnosis, and instrument control.
Multiple Communication (Optional):	Supports wired communication such as Ethernet, USB, and RS232, as well as wireless communication such as Wi-Fi, Bluetooth, GPRS, and 4G.
Multiple Alarm Modes:	Provides sound, light, color, and text alarm indications, with customizable alarm methods to avoid public panic.
Multiple Languages:	Supports Chinese, English, and Portuguese; other language versions can be customized upon request.
Access Level Management:	Supports role-based access for operators, administrators, service engineers, and R&D personnel, ensuring safe equipment operation.
Full-Color Screen:	5.6-inch LED full-color LCD screen clearly displays spectra and the names of explosives and narcotics.
Long Standby Time:	Equipped with a rechargeable lithium battery. Continuous operating time is not less than 3 hours and standby time can reach 24 hours.
Powerful Substance Library:	The substance library contains nearly 100 common explosives and narcotics and can be updated and expanded according to customer requirements.
Handheld Operation:	Compact, lightweight, and easy to carry, suitable for various application scenarios.
Multiple Protection:	Drop-resistant design with resistance to shock, vibration, dust, and electromagnetic interference.
Low-Cost Consumables:	Uses molecular-sieve desiccant, which is economical and easy to replace.
Worry-Free After-Sales Service:	A 24-hour after-sales hotline provides technical support. Service points can arrange on-site support to ensure timely installation, maintenance, and repair.

Technical Specifications

Detectable Explosives:	TNT, RDX, PETN, Nitroglycerin, Black Powder, DNT, Tetryl, HMX, EGDN, ANFO, TATP, HMTD, C4, Semtex, and various military, commercial, and homemade explosives. New samples can be added as required.
Detectable Narcotics:	Cocaine, Heroin, Cannabis, Methamphetamine, Ketamine, Morphine, Ecstasy, Methcathinone, Pethidine, Flunitrazepam, and other common narcotics on the market. New samples can be added as required.
Sensitivity:	Picogram and nanogram level
Analysis Time:	Standard mode: 8 s; Fast mode: 2 s
Warm-up Time:	< 12 min
False Alarm Rate:	<= 1%
Detection Rate:	>= 99%
Weight:	< 3.5 kg
Dimensions:	292 mm (W) x 171 mm (L) x 136 mm (H)
Battery:	Operating time > 3 hours; standby time > 24 hours
Power Supply:	AC110V/220V, 50-60Hz, output 19.5V
Operating/Storage Temperature:	-20°C to 60°C
Operating/Storage Humidity:	< 95%
Operating Pressure:	60 kPa - 106 kPa

Applications

Designed for hazardous material inspection at metro stations, airports, seaports, border checkpoints, and other high-traffic public areas, as well as for forensic evidence examination in non-medical applications.

- On-site detection of chemical warfare agents (CWAs) for military, defense, and counter-terrorism operations;
- Emergency response to hazardous chemical spills and releases involving highly toxic substances;
- Industrial odor monitoring and toxic gas detection for workplace safety and process control;
- Security screening in public venues, transportation hubs, and other crowded areas;
- Environmental monitoring and real-time detection of hazardous air pollutants and contaminants;
- Inspection and identification of hazardous waste.

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