

Spectrum Guard® Non-Radioactive Handheld Explosives & Narcotics Detector IMS-311

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► Introduction

Spectrum Guard® Non-radioactive Handheld Explosives & Narcotics Detector IMS-311 (thereafter as “Spectrum Guard® IMS-311”) is non-radioactive trace level explosives and narcotics detector. Based on ion mobility spectrometry (IMS) principle, Spectrum Guard® IMS-311 uses an non-radioactive ionization source to accurately detect and analyze traces of explosives and narcotics particles or vapors simultaneously, with high detection sensitivity of nanograms. When using a special swab to wipe the surface of any suspicious object and inserting into the device, Spectrum Guard IMS-311 will immediately display explosives or narcotics’ category and specific compounds.

Spectrum Guard® IMS-311 is easy to carry and operate, especially flexible for on-site detection. It’s widely used for explosives and narcotics detection in civil aviation, rail transits, Customs, border & ports, prison and crowd-gathering places, or used as forensic evidence examination and identification tool for law enforcement.

► Features

- Non-radioactive ionization source and being safe;
- Dual-mode, being able to detect explosives and narcotics simultaneously or set up single-mode detection;
- Non-radioactive IMS technology, high sensitivity and low false alarm;
- High detection efficiency, continuous detection, auto calibration, audible & visual alarm, auto cleaning, self-diagnosis, no extra manual operation;
- Remote diagnose and user friendly;
- New Android System makes operation much easier and more efficient;
- Simple and beautiful design, light weight, easy to carry;
- Good interactive design and with 7 inches TFT touch screen;
- Multi data interface and supporting software, storage of 500,000 raw data;
- Upgradable library



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► Application

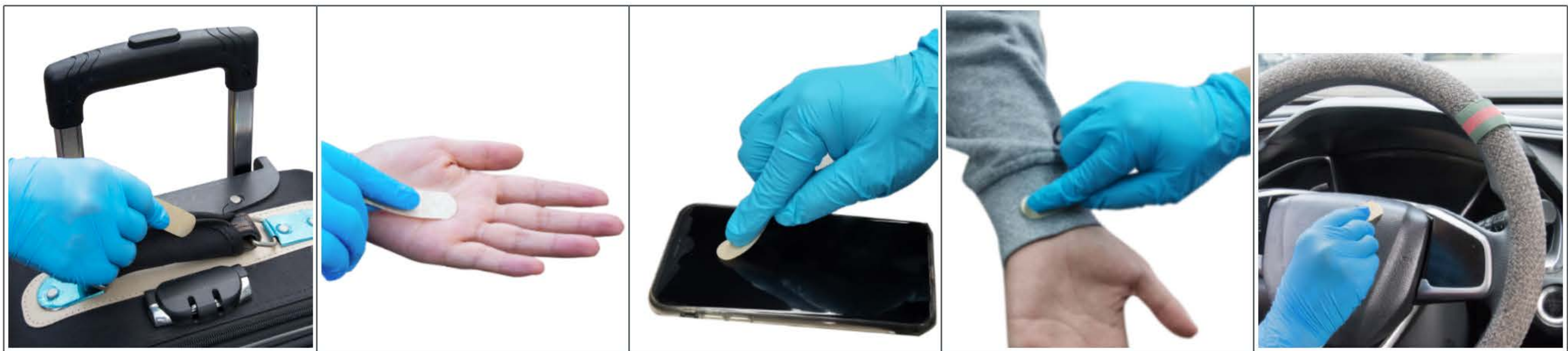
Public Transportation: Airport, Subway, Customs, Border & Port, Railway Station, Bus Station, Dock

Law Enforcement: Police Station, Court, Procuratorate, QC unit

Important Facilities: Military site, Government Building, Nuclear Plant, Embassy

Public Places: Museum, Gym, Entertainment Place

Major Events: Olympic, Asia games, Europe and Asia Fair, Performance Activities



► Technical specification

Item	index
Principle	Ion mobility spectrometry
Ionizer	Non-radioactive ionization source
Detection mode	Dual-mode, explosive mode or narcotic mode
Explosives	Vast majority of commercial and military explosives: TNT, RDX, BP, PETN, NG, AN, HMTD, Tetryl, TATP etc.
Narcotics	Vast majority of narcotics: Cocaine, Heroin, Morphine, THC, Methamphetamine(MA), Ketamine Fentanyl etc.
Sensitivity	Nanogram (10^{-9} - 10^{-7} gram)
Analyzing time	8 seconds
Warm-up time	Less than 20 minutes
Dimension	412mm×158mm×170mm (L×W×H)
Weight	4.8kg
Display Screen	7 inches touch screen
Battery Life	≥3 hours
Device interface	USB / LAN / HDMI
Power adapter	Input: AC 100~240V, 50/60 Hz; Output: DC 24V

