QS-B220 Quantum Sniffer

ADVANCED TECHNOLOGY • EXACTING STANDARDS

Real-time Explosives and Narcotics Trace Detection

Features and Benefits

- Non-radioactive ion sources eliminate licensing, inspection, transport, and end-of-life issues
- Automatic, continuous self-calibration adjusts to environmental changes
  - No operator intervention
  - No calibration traps
- Fast clear-down, typically 10 seconds or less, means more sampling and less waiting
- Rapidly detects and identifies explosives and narcotics
- Low maintenance design delivers low total cost of ownership

Quantum Sniffer™ QS-B220
Bench-top Explosives & Narcotics Trace Detector

Quantum Sniffer Technology

The Quantum Sniffer QS-B220 provides fast, accurate detection of trace amounts of a wide variety of military, commercial, and homemade explosives as well as narcotics with unsurpassed ease of use and minimal maintenance requirements. Incorporating Implant Sciences' patented non-radioactive Ion Mobility Spectrometry (IMS) analysis technology, the QS-B220 brings new levels of performance and convenience to bench-top trace detection users.

Lower Total Cost of Ownership

Operation and maintenance expenses are extremely low with the QS-B220. Routine maintenance consists only of care and cleaning using common supplies and desiccant replacement, as required.

No radioactive material is used in the QS-B220, so there are no certification, licensing, inspection, transportation, or end-of-life disposal issues.

Accurate and Efficient

The Quantum Sniffer performs real-time detection with fast clear-down. When detection occurs, the QS-B220 provides audio and visual alarm indications, including substance identification, on the integrated high resolution color touch screen. Authorized users can also access spectrogram display and analysis, administrative, and diagnostics tools through the touch screen interface.

Automatic and continuous self-calibration prevents errors that could result from an uncalibrated instrument. The QS-B220 monitors its environment, senses changes that would affect its analysis, and recalibrates without user intervention, calibration consumables, or system down-time.

QS-B220 System Characteristics

Detector Type	Ion Mobility Spectrometer (IMS) with non-radioactive ionization
Analysis Time	Less than 10 seconds
Clear-down Time	Less than 10 seconds (typical) • No user intervention
Sample Acquisition	Particulate collection via wiping
Power	100-240 VAC, 47-63 Hz
Warm-up Time	30 minutes maximum
Operating Temperature	-10° C to 55° C (14° F to 131° F)
Operating Altitude	4,572 m (15,000 ft)
Operating Humidity	0 to 95% non-condensing
Substances Identified	**Explosives:** Military, Commercial, and HomeMade Explosives (HMEs) including: Ammonium Nitrate, ANFO, Black Powder, C-4, Detasheet, Detonating Cords, Dinitrotoluene, DMNB, Dynamite, EGDN, HMTD, HMX, Nitroglycerin (NG), Peroxides, PETN, RDX, Smokeless Powder, Tetryl, Triacetone Triperoxide (TATP), Trinitrotoluene (TNT), Urea Nitrate, Semtex
	Narcotics: Cocaine, Heroin, THC, Methamphetamine, L-amphetamine, MDMA, MDA, Morphine, Ketamine
	Additional substances can be added through user expandable detection library
Alarm Method	Configurable visible and audible alarms • Substance identification by name
Data Display	12.5 in high-resolution color touch screen display
Expandability and Connectivity	External VGA port 4 USB 2.0 ports for optional keyboard, printer, mouse and barcode scanner. RJ-45 Ethernet network port supports control station monitoring, remote control, and remote diagnostics.
Calibration	Automatic and continuous self-calibration
Dimensions	11 in x 12.5 in x 13.5 in (280 mm x 318 mm x 343 mm)
Weight	32.5 lbs (14.8 kg)
Consumable Materials	Low cost molecular sieve drying agent High durability sample traps Additional semi-annual preventative maintenance supplies may be required

Made in USA