HTDS
Hi-Tech Detection Systems

QS-B220

L3 Security & Detection Systems

DESKTOP EXPLOSIVES & DRUGS
TRACE DETECTOR

- SIMULTANEOUSLY DETECTS EXPLOSIVES & DRUGS IN SECONDS
- INCAL AUTOMATIC CALIBRATION
- NON-RADIOACTIVE ION SOURCE
- LOW FALSE ALARM RATE

THE QS-B220 COMBINES THE LATEST IN ION MOBILITY SPECTROMETRY (IMS) ANALYSIS TECHNOLOGY WITH UNMATCHED EASE-OF-USE AND AN INDUSTRY-LEADING LOW MAINTENANCE DESIGN.

Defining the new standard in trace detection, the system performs simultaneous detection of a wide variety of explosives and drugs, and delivers results in seconds. Results are displayed on screen and can be printed on the integrated thermal printer or on an optional external printer.

The QS-B220's large high-resolution touch-screen, with over 40% more viewing area than other ETD systems, makes operating the system simple. All functions are accessed through dynamic touch buttons that present screeners only the options necessary to get the job done. Authorized users can also access spectrogram analysis, administrative, and diagnostics tools.

Built for better resolving power and faster clear-down, the QS-B220 delivers superior detection performance with low false alarm rates. The patented inCal automation internal calibration system uses no consumables and does not require any action by the system operator, so screeners can focus on security.

Operational costs are extremely low with the QS-B220. Common maintenance procedures are fully automated and can be activated by simply pushing a button on the system's touch-screen menu system. Long life dopants and calibrants last for years without replacement. Routine service consists of cleaning using common supplies, and desiccant replacement as required.

No radioactive material is used in the QS-B220. There are no associated certification, licensing, inspection, testing, transportation, or decommissioning costs.

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SPECIFICATIONS

General	Height: 36.69 cm without printer, 39.9 cm with printer Width: 42.5 cm without printer, 42.5 cm with printer Depth: 40.4 cm without printer, 40.40 cm with printer Weight: 14.6 kg without printer, 15.7 kg with printer
Detector type	Ion Mobility Spectrometry
Power requirements	Input voltage: 100-240 VAC, 47-63 Hz
	Power consumption: 350 watts peak (225 watts typical)
Data display	31.8 cm high-resolution color touch-screen
Sampling rate	Minimum of 180 samples per hour when no alarm occurs
	Automatic clear-down requires no user intervention
	Typical clear-down time is less than 10 seconds
Warm up time	30 minutes maximum
Sample acquisition	Particulate collection via wiping (wand or with gloved hand)
Calibration	inCal automatic internal calibration system
Alarm Method	Configurable visual and audible alarms Substance identification by name
Consumable materials	Low-cost molecular sieve drying agent (desiccant)
	High-durability sample traps (ECAC certified – reusable up to 25 times)
	Additional preventative maintenance supplies as required
Expandability and connectivity	4 USB 2.0 ports for accessories such as an optional keyboard, printer and mouse. RJ-45 ethernet network port supports control stationmonitoring, remote control, and remote diagnostics. VGA port.
Operating environmental	Operating temperature: -10°C to 55°C (14°F to 131°F)
	Altitude: Up to 4,572 m (15,000ft)
	Relative humidity: 0 to 95%, non-condensing

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