

The Next Generation in Explosives Detection

Quantum Sniffer QS-BTS™ Benchtop Explosives Detector

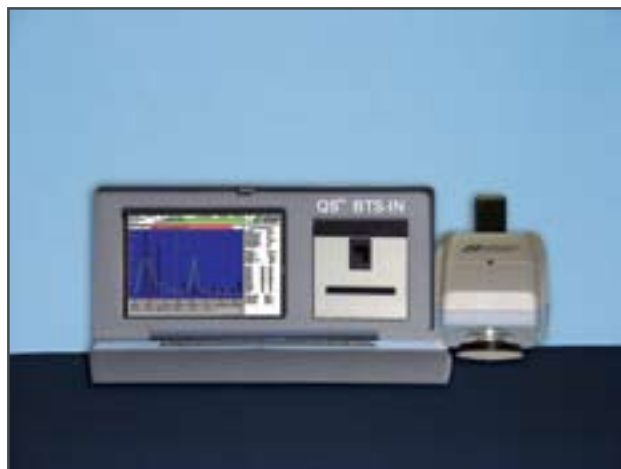
Real Time Explosives
Trace Detection

Quantum Sniffer Technology

The Quantum Sniffer employs a novel technology for the detection of explosives vapors that is more sensitive than existing detection devices. The advanced technique detects the presence of parts per trillion (ppt) of explosives molecules, without physical contact and in real time. The unique patented vortex sample acquisition system collects the sample, ionizes it with the unique QS™ electro-optical ionization scheme, identifies the sample via standard ion mobility technology and, if an explosive is present, will produce a visual and audible alarm. The LCD will display the identity of the explosive present and the audible alarm can be switched off if required. Quantum Sniffer is the only Explosives Trace Detector with true automatic self calibration – no user intervention is required.

QS-BTS

The two part QS-BTS system consists of an Analysis Unit which contains the sample acquisition and substance analysis features, and the Base Unit which contains the monitor, printer, and supplies power to the system. The instrument is remarkable as the Analysis Unit is easily removed and automatically switches to battery mode. This unit then becomes a handheld portable search tool that is capable of self-contained remote sampling. There is no other Explosives Trace Detector that offers this exceptional capability.



Product Features

Analysis Unit

- ❖ Photo ionization – No Radioactive Source
- ❖ True Automatic Self-calibration
- ❖ Real Time Detection
- ❖ Substance Identification
- ❖ Low Operating Costs
- ❖ Detachable for Portable Operation

Base Unit

- ❖ Large Color LCD Monitor
- ❖ Integrated Printer
- ❖ Optional UPS Backup
- ❖ 110/240 VAC Auto-Switching Power
- ❖ Minimal Maintenance Requirements



Specifications

Detector Type	Ion Mobility Spectrometry (IMS) original, non-radioactive ionization (Patent #6828795)
Detector Mode	Explosives Detection
Sensitivity	Vapors: ppt (parts per trillion) Particles: pg-ng levels
Selectivity	Less than 1% false positive
Analysis Time	Real Time (1-10 seconds)
Cleardown Time	Rapid Cleardown
Sample Acquisition	Hand swiping or direct sampling of targeted objects
Warm Up Time	15 Minutes from "Switch-On"
Power	110/240 VAC, 50/60 Hz – Auto Sensing Optional UPS Backup Power 242 Volts, Selectable 12 VDC in Potable Mode Only
Signal Processing	Real Time Analysis Visual alarm and settable audible alarm Settable variable integration time Plasmagram/Spectrogram Component
Identifiable Substances	Semtex, C4, RDX, NC, PETN, EGDN, TNT, Dynamite, HMX ANFO, Smokeless Powder, Black Powder, and others via simple sample substance addition. User expandable substance library
Calibration	Continuous automatic self calibration. Settable interval time.

Dimensions

Base Unit	46cm x 48cm x 25cm (18" x 19" x 10")
Handheld Analyzer	49.3cm x 12.7cm x 18.8cm (19.4" x 5" x 7.4")

Weight

Base Unit	32.5 lbs
Handheld Analyzer	9.3 lbs

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