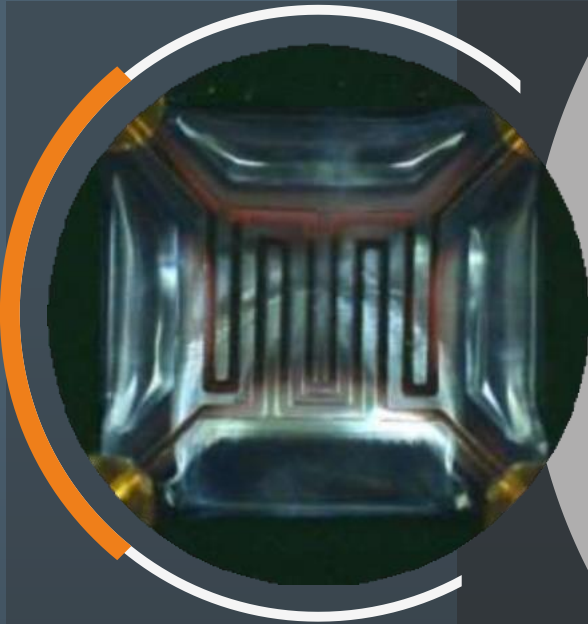


Nanosniffer - X

Explosives Trace Detector



Solution's Brief

Explosives remain the weapon of choice for terrorists around the world. Improvised Explosives Devices (IEDs) are a threat from international terrorist organizations and local, home-grown terrorists as well.

NanoSniffer - X is a Microsensor based highly sensitive and selective explosives trace detector, in a portable desktop configuration. It can be used to accurately detect a wide range of military, commercial and homemade explosives threats by using the *Differential Scanning Calorimetry (DSC) technology*.

Vehant's NanoSniffer - X thrives upon its legacy by offering even more robust algorithms and enhanced features for explosive trace detection.

Operation

Operator collects traces of explosives on a swipe, and inserts the swipe into the instrument. Particles collected on the swipe are internally transferred to the Microsensor, which tests whether the collected particles are explosives or not. Signals from the Microsensor are further analysed by the Electronics, which then appropriately informs the operator of the result in the form of Explosive detected, and its categorization into the appropriate class of explosives.

Salient Features

- First Microsensor based explosive trace detector
- Detection in less than 10 seconds
- Inbuilt Printer
- Detects all classes of military, conventional & homemade explosives
- Identifies & Categorizes explosives into Different Classes
- Can detect nanogram quantities of Explosives Traces
- Less than 2% false alarms
- Visible & audible alerts with sunlight-readable color display



Technical Specifications

System Overview		
Description	-	Desktop Explosive Trace Detector
Data Storage	-	Stores upto 12000 Tests' Data Internally
User Level	-	Operator and Administrator
Environmental		
Operating Humidity	-	5% to 95% RH non-condensing
Operating Temperature	-	-20°C to 55°C
Storage Temperature	-	-20°C to 60°C
Physical Feature		
Dimension (L x W x H)	-	360 x 270 x 300 (mm)
Weight without Battery	-	5.4 kg
Weight with Battery	-	6 kg
Power		
AC Operated	-	110V - 240V, 50Hz - 60Hz
DC Operated	-	16V DC - 18V DC (Li-ion Rechargeable Battery)
System Interface		
Communication	-	Through USB interface
Display Size	-	8" TFT display

Detection Capabilities

Nitramines	- RDX, HMX
Nitroesters	- PETN
Nitroaromatics	- TNT
Nitrosamines	- R-Salt
Peroxides	- TATP
Inorganic nitrates	- Ammonium Nitrate, Urea Nitrate
Chlorate & Perchlorates	- KClO ₄
Smokeless powder	- NitroGlycerine, Ethyl Centralite

