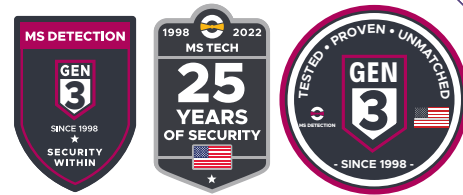# MS DETECTION

THREATSCAN

EXPLOSIVES, HME's, NARCOTICS TRACE AND VAPOR DETECTOR WITH OPTIONAL SENSOR-TO-CLOUD REMOTE MANAGEMENT AND SUPPORT SYSTEM

THREATSCAN is a desktop trace explosives and narcotics detector.Its award-winning and patented HF-QCM nanotechnology sensors provide the latest threat detection and identification capabilities including military, plastic, Home-Made Explosives (HME's), narcotics and synthetic opioids such as fentanyl.
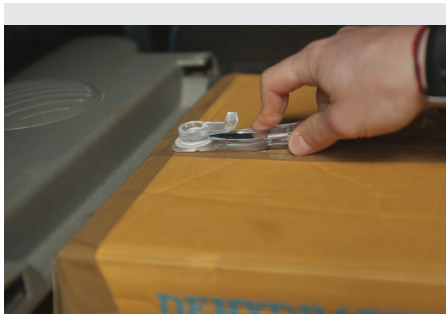
MS Detection's Emergency Operations Center (EOC) has the capability to remotely support threat detection and critical decision-making situations globally, 24 hours a day, 365 days a year.
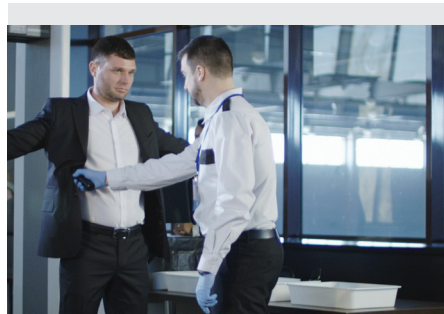
ANTEVORTA is supported and managed by bomb technicians, forensic chemists and product engineers giving them the capability to actively monitor suspicious alarms from detectors around the world. Additionally, this smart sensor-to-cloud center is staffed with data scientists whose mission is to monitor ongoing threat situations across the globe.

ANTEVORTA - MS DETECTION'S EMERGENCY OPERATIONS CENTER REMOTE SENSOR TO CLOUD MANAGEMENT AND SUPPORT SYSTEM

ANTEVORTA
Sensing the Future - Now!

Inspect   Detect   Respond

The EOC is equipped with the most up to date technology platforms for the most timely alarm resolution and threat assessment to enable the smart management and on-site decision making is enabled in seconds with rapid clear-down providing operators more time for sampling and passengers with less time waiting.

Feature Highlights

- HF-QCM nanotechnology sensors
- No radioactive source
- High-throughput sampling
- Fast warm-up time
- Self-calibration
- Easy-to-operate
- Low cost-of-ownership

Market Applications

- Aviation Security
- Customs & Border Control
- Air Cargo Screening
- Sea Ports
- Rail & Mass Transit
- Police & Law Enforcement
- Critical Infrastructures
- Hotels & Shopping Malls

ANTEVORTA

THREATSCAN's onboard processor automatically handles all data logging, including time, date, and sample analysis for each alarm. A complete history of saved data and alarm files can be viewed, analyzed, downloaded, and printed at any time.

Technical Specifications

THREATSCAN	
Technology	High-Frequency Quartz Crystal Microbalance Nanotechnology Sensors (HF-QCM) No gas carrier No radioactive source
Sample Collection	
Sample Collection Mode	Trace Particle Mode; Vapor Sampling Mode
Trace Particle Mode	Sample collection and surface swipe of trace particles via cost-effective sampling swabs
Vapor Sampling Mode	Vapor sample collection with a portable and battery-operated vapor sampler; supplied with two types of Sampling Probes and a DC charger
Detection Capabilities	
Explosives	• Military and plastic explosives including: TNT, Tetryl, RDX, C4, PETN, Semtex, HMX, Detasheet, Dynamite, Nitroglycerine, PEK, Gelatine, Sheet Explosives, LTPE and others* • Peroxide-based explosives, including: TATP, HMTD, and others • Ammonium Nitrate, Urea Nitrate and others • Propellants and Taggants, including: Black Powder, EGDN and others** *Additional explosives as per expandable threat library ** Programmed threat substances depend on software version and regulatory authority
HME's	• Chlorates, Perchlorates and Sulfur based HME's
Narcotics	• Heroin, Cocaine, Amphetamine, Methamphetamine, Ketamine, MDA, THC, LSD, Ecstasy and others* • Synthetic Opioids: Fentanyl, Carfentanyl, W-18 and others** * Additional narcotics upon expandable threat library ** Programmed threat substances depend on software version and regulatory authority
Sensitivity	* Particles: low nanogram (ng) range * Vapors: low parts of billion (ppb) range
False Alarm Rate	Less than 2%
Analysis Time	10 seconds or less
System Interface	
Data Display	15.6" high-resolution, anti-reflective, color touch screen
Printer	Integrated printer
Alarm Type	Audio and visual with substance identification
Software Features	
Warm-Up Time	Less than 4 minutes
Multi-Language Support	English, French, Spanish, Italian, Portuguese, Russian, Chinese, Korean, Japanese, Arabic, and more
Data Storage	Unlimited data logging, including date, time, analysis results and system status
Connectivity	1 x Micro USB 1 x USB 1 x Ethernet RG45 1 x Phoenix Block Header 3P RA Optional Bluetooth and/or Wi-Fi
GPS	Optional detector tracking, positioning, data transmission, and cloud reporting with ANTEVORTA Software
Power	
Input Voltage	100-240V AC, 50-60Hz
Battery	12V rechargeable lithium-ion battery with 6 to 8 hours of field operations
Environmental	
Operating Humidity	Less than 95% non-condensing
Operating Temperature	-4°F to +131°F (-20°C to + 55°C)
Operating Altitude	Up to 15,000 ft (4572 m)
Physical Features	
Weight	22 lbs. (10 Kg)
Dimensions	(L x W x H): 16.53 x 17.32 x 14.56" (42 x 44 x 37 cm)
Enclosure & Protection	
Case	Supplied with a ruggedized MILSPEC case
Safety	No hazardous parts; tamper-proof casing
Certification	
Product	CE Mark, EMC and FCC certification
Manufacturing Standards	ISO 9001:2015 manufacturing standards

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MS DETECTION