



MULTISCAN™

EXPLOSIVES, HME's, AND NARCOTICS DETECTOR WITH GPS TRACKING, POSITIONING AND SENSOR TO CLOUD REMOTE MANAGEMENT AND SUPPORT SYSTEM



MULTISCAN™ is the world's first GPS tracking and positioning explosives and improvised materials detector capable of trace particle and vapor detection. 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.

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

MS Detection's Emergency Operations Center (EOC) has the capability to remotely support the 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 ETDs detectors around the world. Additionally, this smart sensor-to-cloud center is staffed with data scientists whose job is to monitor ongoing threat situations on behalf of MS Detection's customers across the globe.



ANTEVORTA
Sensing the Future - Now!



The EOC is equipped with the most up to date technology platforms for the most timely alarm resolution and threat assessment and enables the smart management and tactical decision making for field deployed operators.

On-site decision making is enabled in seconds with rapid clear-down providing operators more time sampling and less time waiting.



Feature Highlights

- HF-QCM sensors
- No radioactive source
- Lightweight (850 gr. with battery)
- High-throughput sampling
- Fast warm-up time
- Self-calibration
- Easy-to-operate
- Low cost-of-ownership
- Trace Particles Sampling
- Vapor Samples Collection



Market Applications

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



ANTEVORTA™

MULTISCAN'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

MULTISCAN™	
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; Vapor Sniffing Mode
Trace Particles Mode	Sample collection and surface swipe of trace particles via cost-effective sampling swabss
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
Vapor Sniffing Mode	Direct vapor sniffing via a vapor sniffing nozzle
Detection Capabilities	
Explosives	<ul style="list-style-type: none"> • Military and plastic explosives, including: TNT, Tetryl, RDX, C4, PETN, Semtex, HMX, Detasheet, Nitroglycerine, and others* • Peroxide-based explosives, including: TATP, HMTD, and others • Nitrate-based explosives, including: Ammonium Nitrate, Urea Nitrate and others • Propellants and Taggants, including: Black and Smokeless Powder, EGDN, and others** <p>* Additional explosives as per expandable threat library ** Programmed threat substances depend on detector version and regulatory authority</p>
HME's	• Chlorates, Perchlorates and Sulfur based HME's
Narcotics	<ul style="list-style-type: none"> • Heroin, Cocaine, Amphetamine, Methamphetamine, Ketamine, MDA, THC, LSD, Ecstasy, and others* • Synthetic Opioids: Fentanyl, Carfentanyl, W-18, and others** <p>* Additional narcotics as per expandable threat library ** Programmed threat substances depend on detector version and regulatory authority</p>
Sensitivity	* Particles: low nanogram (ng) range. * Vapors: low parts of billion (ppb) range
False Alarm Rate	Less than 2%
Analysis Time	7-15 seconds or less
System Interface	
Data Display	3.5" high-resolution, anti-reflective, color touch screen
Printer	Optional USB printer
Alarm Method	Configurable audio alarm and alarm resolution
Software Features	
Warm-Up Time	Less than 2 minutes
Alarm Type	Audio and visual with substance identification
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
Data Transfer	Micro USB 2.0. Optional Bluetooth and/or Wi-Fi
GPS	Detector Tracking, positioning, data transmission and cloud reporting with ANTEVORTA™ Software
Power	
Input Voltage	100-240V AC, 50-60Hz
Battery	12-V rechargeable Lithium-Ion battery with 6 to 8 hours of field operations; hot swappable for extended operating time
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	1.87 lbs (850 g) battery included
Dimensions	(L x W x H): 7.78" x 3.50" x 2.78" (19.75 x 8.89 x 7.05 cm)
Enclosure & Protection	
Carrying Vest	Supplied with a black breathable vest providing secure attachments for the detector, the Vapor Sampler, and the sampling probes
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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