

# MS DETECTION

## 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 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.



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

**ANTEVORTA**  
Sensing the Future - Now!



Inspect

Detect

Respond

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

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 tactical decision making for field deployed operators.

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
- GPS tracking & positioning
- Cloud management & support
- 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
- EOD & Military Operations
- Hotels & Shopping Malls



### ANTEVORTA

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

# Technical Specifications

<b>MULTISCAN</b>	
Technology	High-Frequency Quartz Crystal Microbalance Nanotechnology Sensors (HF-QCM) No gas carrier No radioactive source
<b>Sample Collection</b>	
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 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
Vapor Sniffing Mode	Direct vapor sniffing via a vapor sniffing nozzle
<b>Detection Capabilities</b>	
Explosives	<ul style="list-style-type: none"> <li>• Military and plastic explosives, including: TNT, Tetryl, RDX, C4, PETN, Semtex, HMX, Detasheet, Dynamite, Nitroglycerine and others*</li> <li>• Peroxide-based explosives, including: TATP, HMTD and others</li> <li>• Nitrate-based explosives, including: Ammonium Nitrate, Urea Nitrate and others</li> <li>• Propellants and Taggants, including: Black and Smokeless Powder, EGDN and others**</li> </ul> <p>* Additional explosives as per expandable threat library ** Programmed threat substances depend on detector version and regulatory authority</p>
HME's	<ul style="list-style-type: none"> <li>• Chlorates, Perchlorates and Sulfur based HME's</li> </ul>
Narcotics	<ul style="list-style-type: none"> <li>• Heroin, Cocaine, Amphetamine, Methamphetamine, Ketamine, MDA, THC, LSD, Ecstasy, and others*</li> <li>• Synthetic Opioids: Fentanyl, Carfentanyl, W-18 and others**</li> </ul> <p>* Additional narcotics as per expandable threat library ** Programmed threat substances depend on software version and regulatory authority</p>
Sensitivity	* Particles: low nanogram (ng) range. * Vapors: low parts per billion (ppb) range
False Alarm Rate	Less than 2%
Analysis Time	7-15 seconds or less
<b>System Interface</b>	
Data Display	3.5" high-resolution, anti-reflective, color touch screen
Printer	Optional USB printer
Alarm Type	Audible and visual with substance identification
<b>Software Features</b>	
Warm-Up Time	Less than 3 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
Data Transfer	Micro USB 2.0. Optional Bluetooth and/or Wi-Fi
GPS	Optional detector Tracking, positioning, data transmission and cloud reporting with ANTEVORTA software
<b>Power</b>	
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
<b>Environmental</b>	
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)
<b>Physical Features</b>	
Weight	1.87 lbs (850 gr.) 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)
<b>Enclosure &amp; Protection</b>	
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
<b>Certification</b>	
Product	CE Mark, EMC and FCC certification
Manufacturing Standards	ISO 9001:2015 manufacturing standards

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