

# TECHNICAL

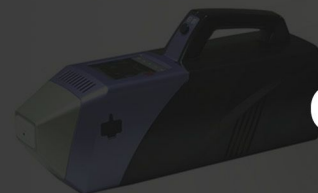
Product Datasheet

## ADVANCED HANDHELD VAPOR & PARTICLE TRACE

Explosives Detector



The GD-HD-ATD is a smart and highly advanced handheld Explosive vapor and particles trace detector, the detector has a sleek, simple, and modern design, a lightweight body, an easy gripping handle, an advanced microprocessor core, and a 3" color screen for ease of use.



**GD-HD-ATD**

The GD-HD-ATD supports detection operation for explosives and narcotics by vapor and particle detection, the detector uses Pseudo Random Sequence Ion Gate Technology and Hadamard Transform (Size-2 DFT) applied to Ion Mobility and Spectrometry (IMS) to largely enhance the detector's sensitivity, signal-to-noise ratio, anti-interference ability and dramatically reduce false alarms, the detector has Micro Gram Sensitivity (MGS) to detect a wide range of explosive materials.

The GD-HD-ATD has an intelligent design for quick manual calibration as well as average speed detection (4 to 10 seconds), the trace detector supports a memory of the last 2,000 events and can be connected to a workstation via the built-in USB and RJ45 network ports to download these past events for recording.

The GD-HD-ATD features a rechargeable battery with up to 3 hours of continuous working time and is equipped with a built-in alert buzzer and status LEDs.

The GD-HD-ATD is compliant with most international standards, including trace detector standards, and international airport security standards while meeting the requirements of ATSM, TSA, ECAC, CAAC, and STAC.

# DETECTOR SPECIFICATIONS

### Trace Detector

Operating Modes	Low, Medium, and High Sensitivity
Detection Technologies	Pseudo Random Sequence Ion Gate Technology and Hadamard Transform (Size-2 DFT) applied to Ion Mobility and Spectrometry (IMS)
Display	3 Inch TFT Color Touch Screen Display
Startup Time	14 Minutes
Events Log	2,000 Events
Workstation Connection	USB and RJ45 Ports

### Detection & Performance

Sensitivity	10 Nanograms
Detection Speed	4 to 10 Seconds
False Alarm Rate	< 1%

### Audible & Visual Alarms

Visual Alarm	Illuminating LEDs
Audible Alarm	Built-in Buzzer

### Electrical

Operating Voltage	110 to 220 VAC, 50 / 60 Hz
Battery Type	Rechargeable Lithium Ion
Battery Size	14.4 VDC, 17.4 Ah
Battery Capacity	Up to 3 Hours Continuously, 9 Hours on Standby

### Mechanical

Dimensions	17.12 (L) x 5.23 (W) x 8.26 (H) Inches (435 x 133 x 210 mm)
Weight	10.14 Lbs. (4.6 Kgs)
Operating Temperature	-4 to 104 °F (-20 to +55 °C)
Operating Humidity	10 % to 90 % (non-condensing)

### Regulatory Compliance

Meets International TSA, ECAC, CAAC, and STAC Security Standards  
Meets ASTM E2520-07 Standards for Trace Detection  
Meets EU 278/2014 Regulations for Use of Trace Detectors  
Meets International CE Regulations and Standards



## DETECTABLE & TRACEABLE MATERIAL

### Explosives

Black Powder	Ammonium Nitrate
TNT	Smokeless Powder
C4	EGDN
RDX	DNT
BP	Gun Powder
PETN	Fireworks
AN	Tetry
TATP	NG
HMTD	Others

\* The detector's database is an open entry database that allows for operators to add new traceable materials at any time by sample learning and programming technology to be included in future scans.

Note: The above pictures and parameters for reference only, the actual product may differ slightly.



## DETECTOR DIMENSIONS



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# ORDERING INFORMATION

GD-HH-ATD

Advanced Handheld Vapor and Particle Trace Explosives Detector



### Guardex Safety

Guardex trace detectors meet international regulatory requirements safety. Guardex trace detectors have undergone safety research to confirm that have no adverse effect and pose no harm to the human body, children, pregnancy or medical devices such as heart pacemakers. However, advice by doctors and medical professionals should be followed regardless of the above when it comes to trace detectors.

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Guardex warrants all its products against any and all manufacturing defects from the date of product delivery from the factory and/or distribution center. Guardex Lmtd series has a warranty of 3 years

GD-HD-ATD – Datasheet V.001



# GUARDEX

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