

# TECHNICAL

Product Datasheet

## DESKTOP LIQUID TRACE ANALYZER



The GD-DT-LTD is a smart desktop liquid trace analyzer, the detector has a sleek, simple, and modern design with an advanced microprocessor core, and a 7" folding color touch screen for ease of use.



### GD-DT-LTD

The GD-DT-LTD supports two separate container detection areas, used according to the liquid container's material (Metallic or Non-metallic), the analyzer accepts non-metallic ceramic, glass, and plastic containers with diameter more than 30 mm and less than 200 mm with liquid of 100 ml or more and accepts metal iron and aluminum containers with diameters up to 80 mm with liquid of 100 ml or more. The GD-DT-LTD also supports a vapor and gas sniffing area.

The GD-DT-LTD uses ultra-wideband pulse microwave reflection technology and thermal conductivity testing technology to safely identify safe liquid types without the need of opening the container / bottle, working on non-metallic containers to identify the dielectric constant of liquids by detecting the liquid's influence on the electric field and working on metallic containers to detecting the thermal conductivity of liquids to identify whether the liquids are dangerous or not.

Additionally, the GD-DT-LTD analyzer supports volatile and dangerous gas trace detection by sampling vapors and gas through a filtering circuit to analyze the data and category of each liquid to identify whether the liquids are dangerous or not.

The GD-DT-LTD has an intelligent design for quick self calibration as well as lighting fast speed detection (1 to 2 seconds), the trace detector supports a memory of the last 1,000 events.

The GD-DT-LTD 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.

# TRACE ANALYZER SPECIFICATIONS

### Trace Analyzer

Operating Modes	Vapor, liquid in metallic container, liquid in non-metallic container
Detection Technology	Ultra-wideband pulse microwave reflection technology (For non-metallic containers) Thermal conductivity testing technology (For metallic containers)
Display	7 Inch Foldable Color Touch Screen Display
Startup Time	1 Minutes
Events Log	1,000 Events

### Performance

Detectable Volumes	<b>Non-metallic containers:</b> Diameter > 30mm and < 200mm with liquid of > 100ml <b>Metallic containers:</b> Diameters < 80 mm with liquid of > 100 ml
Detection Speed	1 to 2 Seconds
False Alarm Rate	< 1%

### Mechanical

Dimensions	18.11 (W) x 13.77 (D) x 7.48 (H) Inches (460 x 350 x 190 mm)
Weight	26.45 Lbs. (12 Kgs)
Operating Temperature	50 to 149 °F (10 to +65 °C)
Operating Humidity	10 % to 90 % (non-condensing)

### Audible & Visual Alarms

Visual Alarm	Illuminating LEDs
Audible Alarm	Built-in Buzzer

### 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

### Electrical

Operating Voltage	110 to 220 VAC, 50 / 60 Hz
Power Consumption	10 Watt



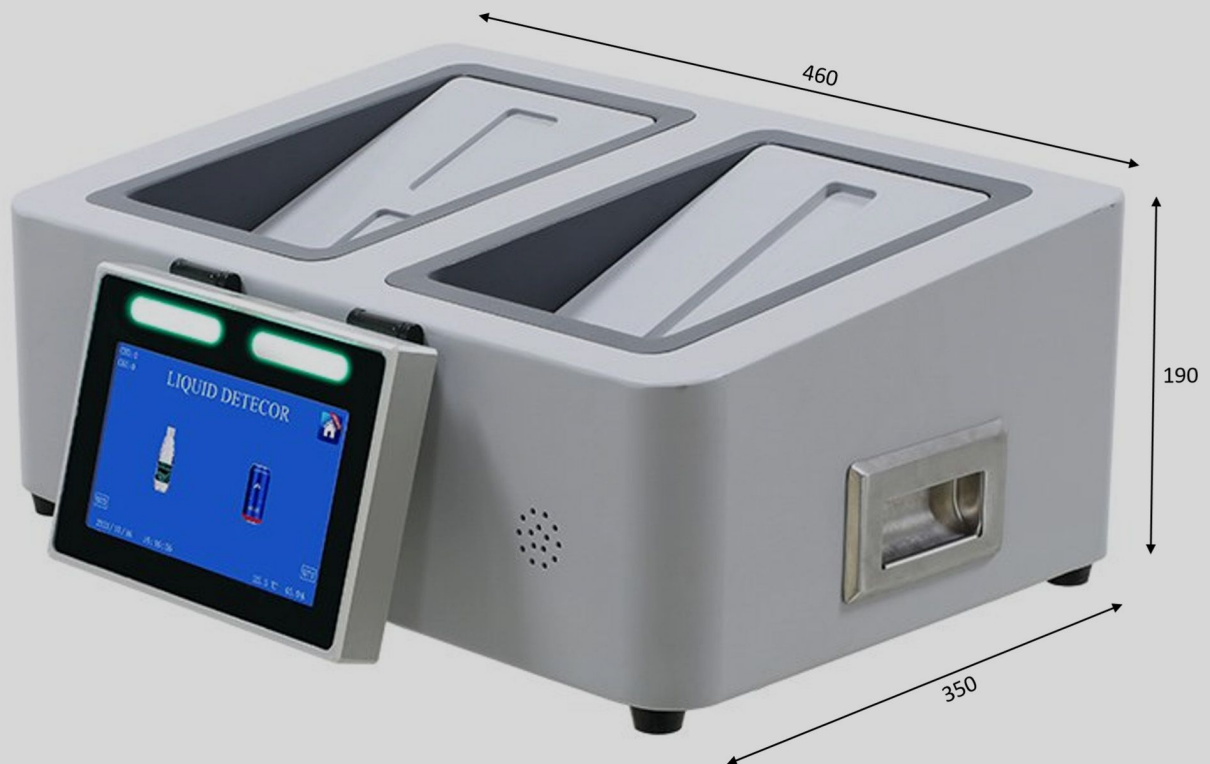
## DETECTABLE & TRACEABLE MATERIAL

### Alarming Liquids

Methanol	Pentane
Toluene	Acetone
Isopropanol	Dichloroethane
Ethanol	N-heptane Alkane
Kerosene	Tetrahydrofuran
Diesel	Isopropyl Ether
Banana Oil	Trichlorotoluene
Acetic Acid	Styrene
Pine Perfume	Paint
Turpentine	Petroleum Ether
Carbon Disulfide	Nitromethane
Propylene Oxide	Methylcyclohexane

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

## DETECTOR DIMENSIONS



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

## ORDERING INFORMATION

GD-DT-LTD

Desktop Liquid Trace Analyzer



### 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

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## GUARDEX

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