

# TOCAM™



[www.defiant-tech.com](http://www.defiant-tech.com)

Chemical Detection Range	Vinyl Chloride (MW 62.5)	2-Methyl Naphthalene (MW 142.2)
Boiling Point @ 1 atm	-13.3 °C	244.7 °C
Vapor Pressure @ 25 °C	2980 mmHg	0.067 mmHg
Instrument Specifications		
PID Lamp	10.6 eV energy	
GC Column	2.5 meter or 4.8 meter	
Weight	30 oz (850 grams)	
Dimensions	9 ¼" x 5 ½" x 3" (23.5x14x7.6 cm)	
Power:	9 – 12 VDC , AC wall adapter	
Interface:	Standard RS-232 port	

## Defiant Technologies Inc

6814A Academy Parkway W NE

Albuquerque, NM 87109

[www.defiant-tech.com](http://www.defiant-tech.com)

(505) 999-5880

sales@defiant-tech.com

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## Miniature Gas Chromatograph for VOCs in Air



**Introducing TOCAM™, the Toxic Organic Chemical Air Monitor by Defiant Technologies, Inc.**

# Hand-Held Gas Chromatography



## Screening with Meaning

## One Instrument – 2 Modes

### Features

- ✓ Chemical identification and concentration in under 10 minutes
- ✓ Sentinel mode for fast alert to total VOC
- ✓ Micro-Technology makes a full GC system smaller than a laptop computer
- ✓ No specialty gases required
- ✓ Easy to program GC temperature profile
- ✓ Simple calibration process
- ✓ Audible Alarm
- ✓ Quantitative results display on screen
- ✓ Chromatograms display real-time on computer
- ✓ Easy-to-use analysis software
- ✓ All test data stored in on-board memory

### Applications:

Environmental Monitoring  
Industrial Hygiene  
Indoor Air Quality  
Vapor Intrusion  
Process Monitoring  
Laboratory and Field Analysis

### Includes:

- Micro-Concentrator for sample collection/injection
- Micro-GC Column for analyte separation
- Two miniature photo-ionization detectors
  - One for rapid screening
  - One for detailed analysis
- Simple-to-use chromatography software for analysis and calibration

### Rapid Survey Mode

- Micro-concentrator collects a sample and injects it on a PID
- Trap and inject method eliminates PID drift
- System offers lower detection limits than a PID alone
- Cycle as fast as 10 seconds for monitoring high concentration events
- Cycle for two minutes for sub ppb level detection
- High levels immediately triggers a full GC analysis

### Full GC Analysis Mode

- GC analysis on BTEX completed in less than 6 minutes
- Collect, inject, separate and detect cycle is fully automated
- Quantitative results offers confidence in readings
- System follows EPA Method TO17 Adaptation

