

# UltraRAE

Portable Handheld Benzene and Compound-Specific VOC Monitor.

## Introduction

United Safety makes use of the UltraRAE 3000, the most advanced Compound-Specific monitor on the market. Its Photoionization Detector's (PID) extended range in VOC mode and in benzene-specific mode makes it ideal for applications from entry pre-screening during refinery and plant maintenance to hazardous material response, marine spill response and refinery downstream monitoring.

## Key Features

- VOC mode or Benzene-Specific mode for extreme versatility.
- Real-time wireless data transmission with built-in Bluetooth and optional RAE Link3 portable modem.
- Integrated RAE Systems Correction Factors list for more than 200 compounds, measuring more compounds than any other PID.
- Field-interchangeable battery pack is replaceable in seconds without tools.
- 3-second response in VOC mode or 60 seconds in compound-specific mode.
- Unique 15-minute benzene STEL calculation with 15-minute real-time benzene-specific measurement and recording.
- Highly specific readings, combining a 9.8 V UV lamp and RAE-Sep benzene tube.
- New sampling probe design provides instant tube breakthrough visibility.



## Key Benefits

- Extremely versatile.
- Easy to use.
- Large graphic display.
- Multi-language support.
- Easy access to lamp and sensor in seconds without tools.
- Uses low-cost RAE-Sep tubes vs. gas detection tubes.
- No annual factory calibration is required.

# Technical Specifications

[www.unitedsafety.net](http://www.unitedsafety.net)

## UltraRAE

Portable Handheld Benzene and Compound-Specific VOC Monitor.

Monitor Specifications				
Size	10" L x 3.0" W x 2.5" H (25.5cm x 7.6cm x 6.4cm)			
Weight	26oz (738g)			
Operating Temperature	-4° to 122°F (-20° to 50°C)			
Operating Hours	16 hours of operation			
Display Graphic	4 lines, 28 x 43mm			
Keypad	1 operation and 2 programming keys, 1 flashlight on/off button			
Alarms	95dB buzzer (at 12"/30cm) and flashing red LED to indicate exceeded preset limits High: 3 beeps and flashes per second Low: 2 beeps and flashes per second STEL and TWA: 1 beep and flash per second Alarms latching with manual override or automatic reset Additional diagnostic alarm and display message for low battery and pump stall			
IP Rating	IP-65, unit running			
Calibration	2-point or 3 point calibration for zero and span. Calibration memory for 8 calibration gases, alarm limits, span values and calibration dates.			
Frequency	902 to 928 MHz (license-free), 2.400 to 2.4835 GHz (license-free), 433 MHz, 869 MHz			
Wireless Range (Typical)	UltraRAE 3000 to RAELink3 or RAELink3 Z2 modems~33 feet (10 meters)			
Hazardous Area Approval	US and Canada: Classified as Intrinsically Safe for use in Class I, Division 1 Groups A, B, C, D			
Battery	Rechargeable, external field-replaceable lithium-ion battery pack Alkaline battery adapter			
Sensor Specifications	Gas Monitor	Range	Resolution	Response Time
	VOCs	0 to 99.99 ppm	0.05 ppm	<3 sec
		100 to 999.9 ppm	0.1 ppm	<3 sec
		1000 to 9999.9 ppm	1 ppm	<3 sec
	Benzene	0 to 200 ppm	0.05 ppm	<60 sec
Butadiene	0 to 200 ppm	0.05 ppm	<60 sec	