

# United Chemists Scientific

Automated OSHA, NIOSH, and EPA air sampling with the  
eAir™ and AirView™ software.

## The eAir™

Control and data log your air sampling event

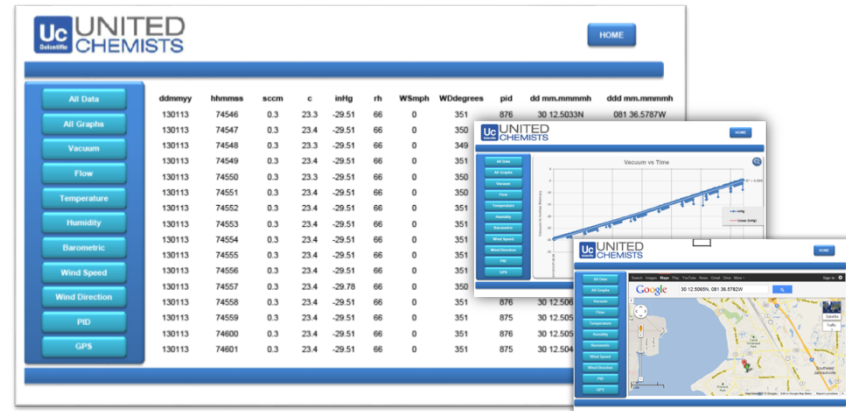
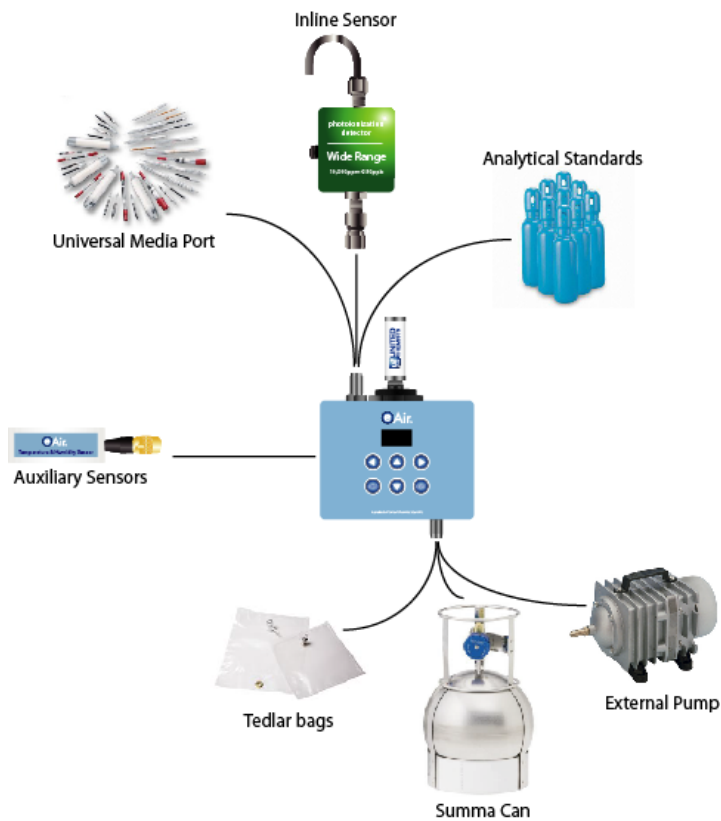
Developed by United Chemists Scientific  
[www.UnitedChemists.com](http://www.UnitedChemists.com)



# Overview

## Overview

- United chemists has combined hardware, software, and regulatory information to support real time decision making.



# Hardware

## Hardware

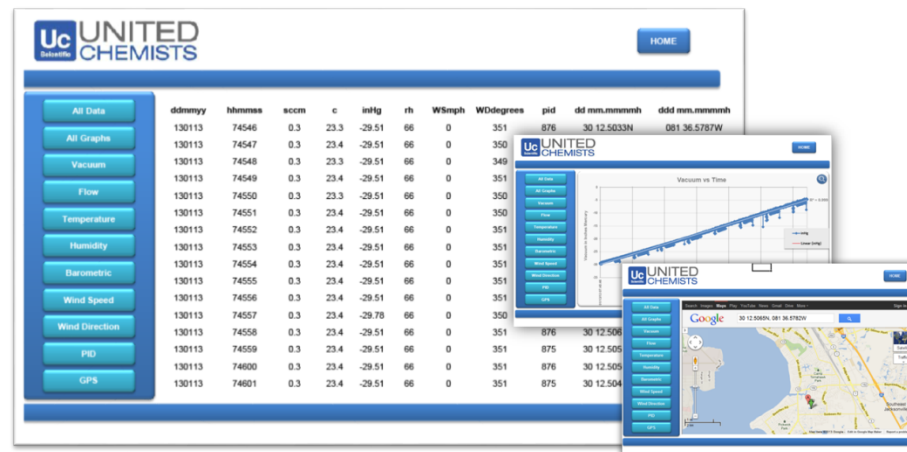
- Automated monitoring and sampling
- IP-67 rated waterproof enclosures
- Wifi capability
- Programmable timers and sampling triggers
- Plug and play sensors
- Standard ¼” inlet and outlet
- Inert 316 Stainless steel sample flow path
- Digital record of sampling and monitoring



# Software

## Software

- Cloud based platform
- Provides air monitoring and sampling control
- Easy to use graphical user interface
- Can be used on any browser or smartphone
- Secure encrypted data
- Real time and historical data
- Regulatory methods and limits of exposure
- CDC and other Health and Safety database integration

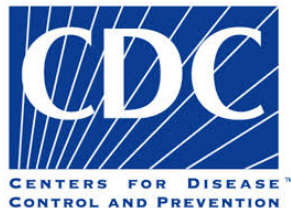


# Regulatory Information

## Regulatory Information

United Chemists is integrating all known regulatory information into AirView.

- Sampling methods
- Exposure limits
- Compound libraries
- Toxicological information
- Regulatory method analysis
- Health and safety databases
- Includes international standards (Japan, European Union, China, India)



# Your Data-Regulatory Data

## Your Data – Regulatory Data

United Chemists is integrating all known regulatory information into AirView.

- Set alarms
- Set sampling triggers
- Share with others
- Make informed real time decisions

The screenshot displays a web browser window showing a table of Permissible Exposure Limits (PELs) from NIOSH and ACGIH. The table lists various substances and their corresponding limits. Below the browser, an Excel spreadsheet is visible, containing a data table with columns for date, time, flow rate, pressure, temperature, humidity, wind speed, wind direction, and barometric pressure.

Substance	OSHA TWA	NIOSH			ACGIH		mg/m <sup>3</sup> per ppm
		TWA	C	STEL	TLV	STEL	
benzene	1	0.1*	1		10 <sup>b</sup>	3.19	
p-tert-butyltoluene	10	10		20	1	6.06	
cumene	50 (skin)	50 (skin)			50 (skin)	4.91	
ethylbenzene	100	100		125	100	4.34	
α-methylstyrene	100	50		100	50	4.83	
β-methylstyrene	100	50		100	100	4.83	
toluene	200	100		150	50 (skin)	3.77	
p-xylene	100	100 <sup>d</sup>		150	100	4.34	
		100			100	150	4.34
		50		100	50	100 (skin)	4.26

A	B	C	D	E	F	G	H	I	J	K	L		
ddmmyy	hhmss	mL/min	inHg	Celcius	rhumidity	WSKph	WDdegrees	PPB	dd	mm.mr	ddd	mm.mr	barometric
190613	212729	198.28	-17.57	22.8	40	6.8	158	1166	40	51.161	073	38.45	29.92
190613	212730	200.36	-13.84	22.8	40	6.4	180	1117	40	51.161	073	38.45	29.92
190613	212731	200.26	-13.69	22.8	40	5.6	180	1190	40	51.161	073	38.45	29.92
190613	212732	200.76	-13.76	22.8	40	6.6	180	1142	40	51.161	073	38.45	29.92
190613	212733	199.76	-13.61	22.8	40	6	180	1069	40	51.161	073	38.45	29.92
190613	212734	198.97	-13.54	22.8	40	6.6	180	1044	40	51.161	073	38.45	29.92
190613	212735	198.58	-13.57	22.8	39	6.3	180	1044	40	51.161	073	38.45	29.92
190613	212736	200.36	-13.61	22.8	39	6	180	1044	40	51.161	073	38.45	29.92
190613	212737	198.97	-13.61	22.8	40	6.9	180	1020	40	51.161	073	38.45	29.92
190613	212738	199.67	-13.42	22.8	40	5.9	203	1020	40	51.161	073	38.45	29.92
190613	212739	199.07	-13.69	22.8	40	6.1	203	996	40	51.161	073	38.45	29.92
190613	212740	198.48	-13.39	22.8	39	5.6	203	996	40	51.161	073	38.45	29.92
190613	212741	198.87	-13.24	22.8	40	5.5	203	996	40	51.161	073	38.45	29.92
190613	212742	199.17	-13.65	22.8	40	6.7	180	996	40	51.161	073	38.45	29.92
190613	212743	199.37	-13.61	22.8	40	6.3	203	947	40	51.161	073	38.45	29.92
190613	212744	200.76	-13.54	22.8	40	5	180	996	40	51.161	073	38.45	29.92
190613	212745	198.67	-13.65	22.8	40	5.3	180	874	40	51.161	073	38.45	29.92

# Applications

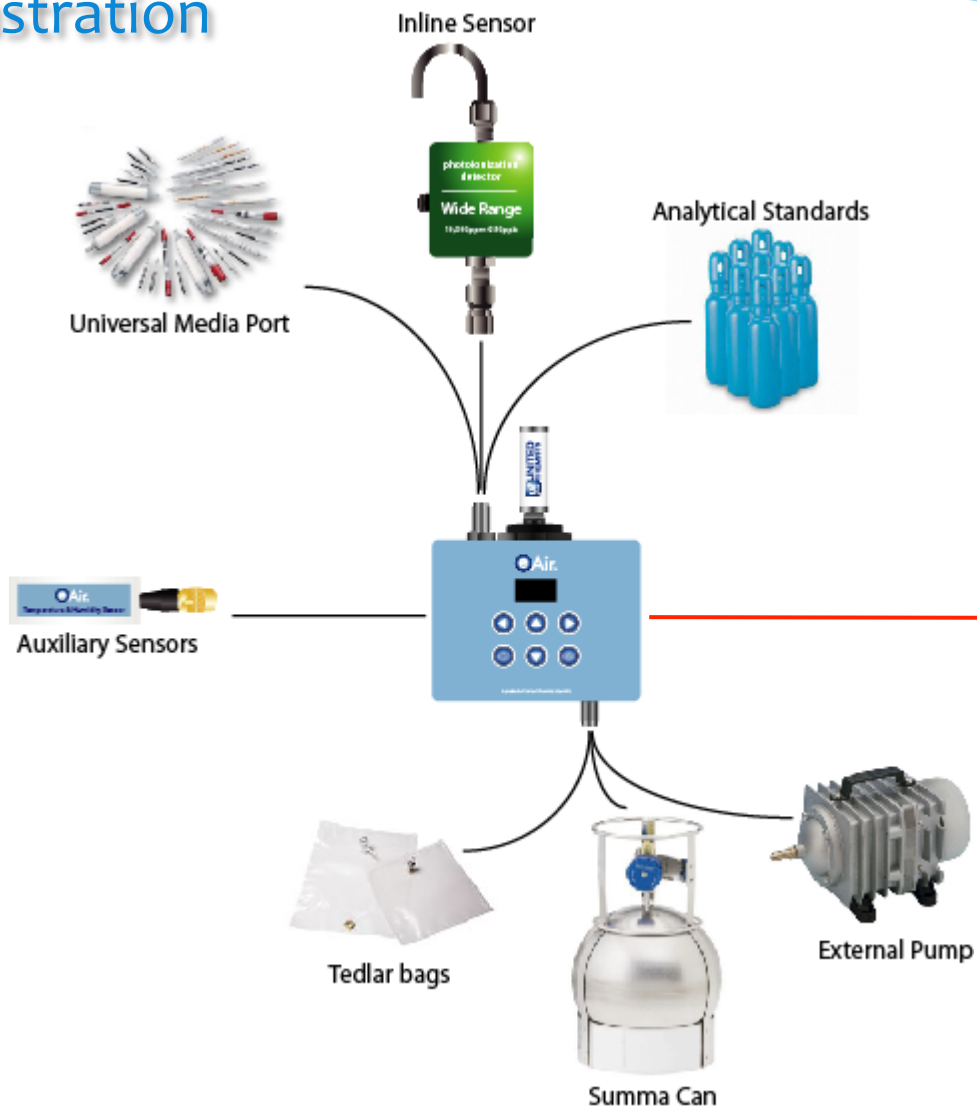
## Applications

- Workplace assessment and evaluation
- Oil and gas industry compliance
- Personal sampling and monitoring
- Perimeter monitoring
- Indoor air quality measurement and sampling
- Community air monitoring programs (CAMP)
- Health and Safety compliance
- Confined space entry
- Radiological site monitoring and sampling



# Appendix I

## Illustration



- Air Quality
- Perimeter
- Hand Held
- Rapid Deployment
- Permanent Installation



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The  Air™

