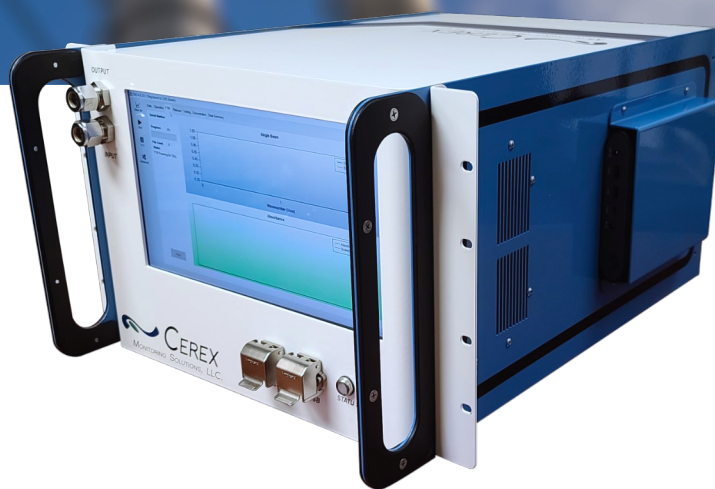


# Cerex UV3000C-RM

## UV DOAS Multi-Gas Analyzer

Designed to provide high performance analysis for a variety of applications such as **Process, Ambient, and Continuous Emission Monitoring** in a rack mount configuration



### Key Features

- Multi-gas analysis with real-time data output; rates 15 sec. to 2 min.
- Parts per billion (ppb) to percent (%) volume configurable dynamic ranges
- Instant analysis with integrated Windows® PC touchscreen; or remote control from anywhere with integrated networking
- MODBUS TCP/IP, RTU, Serial Outputs
- User-configurable alarms that auto-send data to e-mail, website or control room within seconds
- Internal Sample Pump - inherent fixed calibration

### Optional

- Heated Sample Cell
- Fiber Coupled Remote Sample Cell
- Sample Bundle Temperature Controller
- Touchscreen Delete
- Programmable Zero / QA Span Multiplexer
- External Sample Pump
- Wheels for portability
- Automated Calibration Check



Cerex Monitoring Solutions places customer service and support as its highest priority and commits to long standing relationships that do not end after the sale of an analyzer.



INDOOR MONITORING

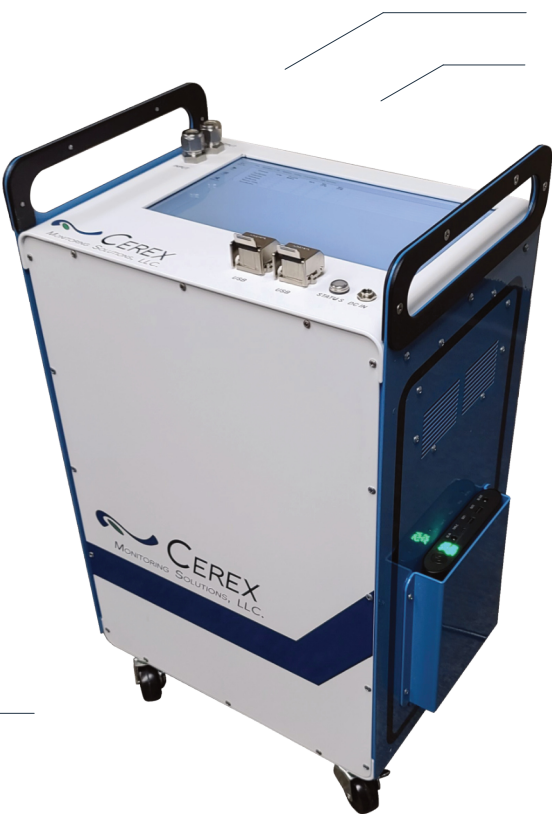
CONTINUOUS EMISSION MONITORING

PROCESS MONITORING

As a stand-alone multi-gas analyzer or component of an array of analyzers, **the Cerex UV3000C-RM provides flexibility in target compounds, dynamic range, integration, alarming, and remote control** while delivering uptime typically greater than 99%.

The basic model is suitable for continuous ambient monitoring and cool/dry continuous emissions monitoring. **Configured for hot/wet continuous emissions monitoring, or process monitoring,** the Cerex UV3000C-RM includes options for complete quality assurance automation and sample temperature control.

Wheels for portability (optional)



Sample Ports

LCD  
Touchscreen

General Specifications

Analyzer Model	UV3000C-RM		
Technology	Multi-compound UV-DOAS		
Applications	Continuous Emission Monitoring, Process Monitoring, Ambient Monitoring, DeSOx, DeNOx, Ammonia Slip Monitoring		
Maintenance	<b>UV Lamp</b>	Deuterium Bulb (4000 hour half life warranty) 6+ months continuous operation (typical)	
	Replace sample air filters and cooling air filters as needed		
Installation	<b>Weight</b>	11kg (24lbs)	
	<b>Measurements</b>	26.7 x 48.3 ≤ 61.0 cm (10.5" x 19" x ≤ 24")	
Operating Conditions	<b>Temperature</b>	0°C to 45°C	
Sample Conditions	<b>Temperature</b>	Unheated	45°C max
		Heated	180°C max
	<b>Volume</b>	1.2L	
	<b>Flow Rate</b>	1 LPM - 20 LPM	
	<b>Gas Inlet</b>	1/4" - 3/8" Swagelok or equivalent	
	<b>Gas Outlet</b>	3/8" -1/2" Swagelok or equivalent	
Software & Interface	Integrated touchscreen PC with MS Windows™ 10/11 OS RJ-45 LAN, Type C USB MODBUS TCP/IP, RTU, Serial, VNC		
Data Output Rate	User configurable, TYP 15 seconds to 2 minutes		

# Cerex UV3000C-RM UV-DOAS Multi-Gas Analyzer

## Estimated Minimum Detection Limits (4.88m Cell)

Compound Name	Chemical Formula	Average Minimum Detection Limits	
		Default Mode	CMS REV 4.1.352.1
1-3 Butadiene	C <sub>4</sub> H <sub>6</sub>	0.245 ppb	0.028 ppb
Acetaldehyde	C <sub>2</sub> H <sub>4</sub> O	623	Not tested
Acrolein	C <sub>3</sub> H <sub>4</sub> O	2258.97	245.1995
Ammonia	NH <sub>3</sub>	22.54	2.324
Benzene	C <sub>6</sub> H <sub>6</sub>	24.745	2.73
Carbon Disulfide	CO <sub>2</sub>	6.825	0.7315
Chlorine*	Cl <sub>2</sub>	3500	3500
Cyanogen*	CO	87.5	Not tested
Ethylbenzene	C <sub>8</sub> H <sub>10</sub>	37.765	4.3645
Formaldehyde	CH <sub>2</sub> O	20.055	2.2155
Hydrogen Sulfide*	H <sub>2</sub> S	5.88	0.735
Mercury	Hg	0.07	0.0105
m-Xylene	C <sub>8</sub> H <sub>10</sub>	4.55	0.5565
Naphthalene	C <sub>6</sub> H <sub>14</sub>	3.325	0.3535
Nitric Oxide	NO	13.51	1.5435
Nitrogen Dioxide	NO <sub>2</sub>	115.57	12.25
o-Xylene	C <sub>8</sub> H <sub>10</sub>	44.94	5.005
p-Xylene	C <sub>8</sub> H <sub>10</sub>	11.76	1.2845
Phenol*	C <sub>6</sub> H <sub>6</sub> O	63	Not tested
Styrene	C <sub>8</sub> H <sub>8</sub>	16.03	1.7745
Sulfur Dioxide	SO <sub>2</sub>	17.745	1.918
Toluene	C <sub>7</sub> H <sub>8</sub>	20.125	2.317

\* May not be detectable in all mixtures

\*\* Units of Percent Volume

Each UV3000C-RM is calibrated for the specific project and optimized for simultaneous monitoring of the compounds of interest. A standard library for general purpose monitoring is presented above.

Cerex manufactures a full line of UVDOAS and FTIR multi-gas analyzers for CEMs, process monitoring, fenceline monitoring, leak detection, zone monitoring, indoor air quality monitoring, and custom solutions. Contact us for a demonstration of our technology.