

A monitoring solution for every situation.



LasIR MP - Mini Portable Series

An analyzer and optic assembly designed for applications that require ambient air measurements - potrooms, remote paths, and mobile applications.



LasIR MS - Mini Stack Series

An analyzer with built in optics designed for durability, for in situ, real time stack and duct measurements.



LasIR S - Standard Series

Standard series analyzers are designed to send and receive signals from a central control room to various measurement points. A single analyzer can be set to measure up to 20 locations.

Improve energy efficiency, reduce costs, and safeguard work environments with In-Situ, Real Time gas analyzers for CEMS, combustion, environmental, fugitive emissions, health, safety and process monitoring.



LasIR MS – Mini Stack Series

In Situ Industrial Gas Monitors

For Environmental, Fire Detection, Fugitive Emissions, Health, Safety, and Process Monitoring applications.

Providing Accurate, Reliable and Continuous measurements at a real time process level with an exceptional life cycle value.



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599 Colby Drive Unit #1
Waterloo ON, Canada N2V 1A1
tel: 519.886.7751 fax: 519.886.3768

Path Length:	Up to 25 meters
Dynamic Range:	5 orders of magnitude
Response Time:	1 seconds and higher
Calibration:	Factory set
Laser:	NIR Diode lasers
Air Purge Requirements	<i>depending on conditions</i> 50 psi @ 15 L/min
Environmental Conditions	Gas: -100 to +1800 °C, 5 - 95% RH, 25 - 2000 mbar Optics: -40 to 65°C 5-95% RH 25 - 2000 mbar
Transmitting / Receiving Optic Dimensions	6'' (H) x 6'' (W) x 15 (D) (15 x 15 x 38 cm) 11 lb. (5kg)
	<i>Nema4 Enclosure:</i> 20'' (H) x 18'' (W) x 16'' (D) (50 x 45 x 40 cm) 22 lb. (10kg)
Outputs & Networking	RS232, Ethernet, 4-20mA, Status relays
Data Logging and Display Software	DataView, DataReview, <i>Optional diagnostic software</i>
Data Storage	Internal storage & External storage via ethernet or RS232 to external computer
Power Supply	Input 100 - 240 VAC @50-60Hz, +12 VDC Output: 12V, 60w Operating Voltage: 12 VDC Optional 12V Battery

Analyzer:	6 H x 6 W x 10 D (in) [15 H x 15 W x 25 D (cm)]
	<i>Weight:</i> 10 lb. (4 kg)
Mount:	NEMA Enclosure: 20 H x 18 W x 16 D (in)
	<i>Weight:</i> 15 lbs (5 kg)

In-Situ Optical Sensors

Real Time Monitoring & Analysis

Data Logging & Storage

Sensitivities

Gas	Detection Limits / ppm - m	
CO	30	38 mg/m3
CO2	30	59 mg/m3
CH4	0.5	0.36 mg/m3
HCl	0.2	0.32 mg/m3
HF	0.03	0.03 mg/m3
H2O	0.1	0.08 mg/m3
H2S	5	8 mg/m3
NH3	0.3	0.23 mg/m3
NO	15	20 mg/m3
O2	100	140 mg/m3

** Detection limits will vary depending on measurement conditions.*

Sensors mounted on the stack or duct continuously measure the process flow

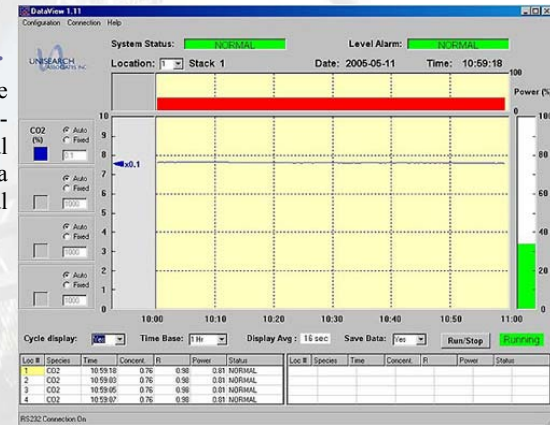
Stacks and Ducts. The LasIR is able to monitor Stacks and Ducts with standard flange connections. Requires line of sight across stack/duct.

Measurements are taken and analyzed at rates as fast as 1 second.

Multiple Species. Depending on the gas and the laser wavelength, simultaneous measurements of up to 4 different gas species with a single analyzer are possible.

Measurements are taken and analyzed at rates as fast as 1 second.

DataView & DataReview are software programs that can be used to display Real-Time measurements (via RS232 serial port) and download archived data (via ethernet) for trend analysis on an external computer.



LasIR MS In-Situ Stack / Duct Gas Monitors

DANGER

LASER RADIATION

PEAK POWER	50mW
WAVE LENGTH	1500 nm
CLASS	IIIb

LasIR instruments are designed and built to comply with CSA, UL and CE requirements:

Laser Safety: IEC / EN 60825
General Safety: IEC 61010
Electro-Motive Compliance: IEC / EN 61000

** images not to scale*