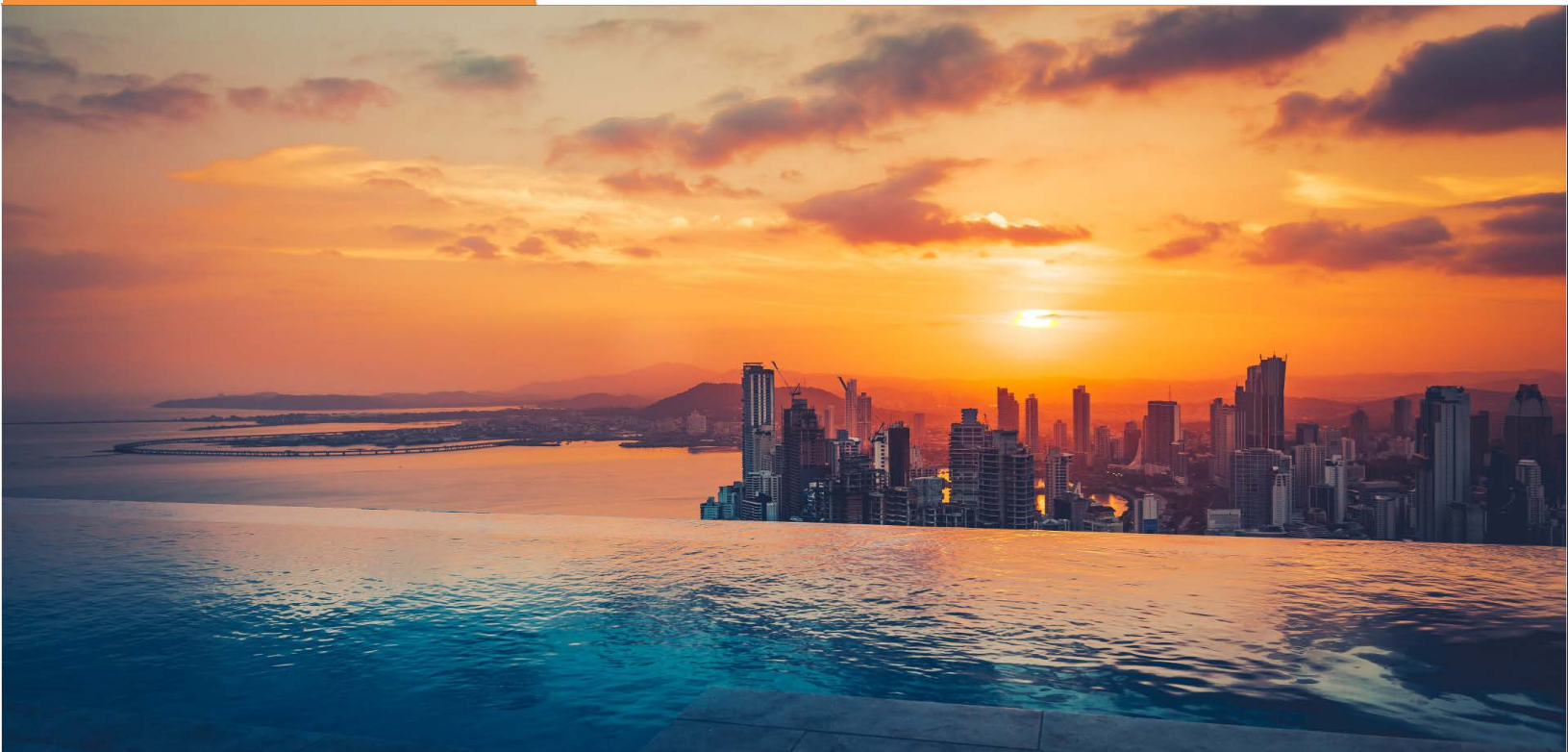




Sunset
Laboratory Inc.

Cutting Edge Carbon Aerosol Particulate Analysis Instrumentation



Our Products

Lab OC-EC Aerosol
Analyzer

Model-4 Semi-Continuous
OC-EC Field Analyzer

Autoloader™

Performance Evaluation
Samples (PES)

Sunset Laboratory Inc. was founded in 1984 and includes over a dozen representatives world wide. Sunset Lab provides sample analysis services, instrumentation, and support for many of the world's organizations involved in this area of sample analysis and measurement, be it local or federal government agencies, universities, or private corporations.

This thermal optical technique has been adopted as the analytic method for OC EC measurements by the National Institute for Occupational Safety and Health (known as NIOSH method 5040). The founder of Sunset Lab also received the 1996 Alice Hamilton Award as a co-author of this method, along with Eileen Birch of NIOSH.

**NEW IN 2026 - DUAL LASER option for Brown Carbon measurements.
Speak to a Sunset Lab representative to find out more.**

Lab OC-EC Aerosol Analyzer



The Lab OC-EC Aerosol Analyzer is the industry standard for environmental and workplace monitoring. This instrument uses a proven thermal-optical method to analyze for OC-EC aerosols collected on quartz filters. It is the basis for NIOSH Method 5040 and is fully compliant with the IMPROVE protocol. It features a new and improved microcontroller and data acquisition system for enhanced accuracy and precision. There is no comparable instrument on the market today.

Features:

- OC/EC/TC measurements for integrated filters and bulk samples
- Analysis profiles easily selectable to match NIOSH, IMPROVE A, STN or custom applications
- Excellent sensitivity with low instrument background
- FID detection with linearity over 4 orders of magnitude
- Built-in FID igniter
- New and improved microcontroller and data acquisition system for enhanced accuracy and precision
- Standard transmittance-based pyrolysis correction, resulting in better signal-to-noise and throughput

-Additional 375nm or 405nm option available

Model-4 Semi-Continuous OC/EC/BC/BrC Monitor



The Model-4 Semi-Continuous OC-EC Field Analyzer features the latest advances in electronic and optical technology, and is rack mountable! This rugged and compact instrument offers sensitive and reliable field operation with an optimized oven and detector design. Its access panel allows for easy filter service and calibration. New safety mechanisms and inline pressure regulators offer superior flow control.

Applications:

- Ambient air quality and environmental exposure measurements and
- Source Apportionment

- Indoor air exposure assessment monitoring
- Long-term environmental research such as studying the effects of regulatory changes
- NIOSH exposure assessments in the workplace

-Additional 405nm option available

Autoloader



The Sunset Autoloader is an innovative device and the perfect match for the OCEC Lab Analyzer. The Autoloader enables the full automation of the repetitive OCEC analysis procedures, resulting in valuable time savings and increased human resources efficiency.

Applications:

- Extensive OCEC analysis
- Lab Analyzer upgrade
- Round-the-clock operation
- Increased time efficiency
- Reduce sample handling errors

Features:

- Capacity for up to 36 sequential samples analysis
- Round-the-clock unattended operation
- Enclosed filter area with built-in cooling
- Compatible with all M5L model analyzers
- Unified and seamless software integration
- Individual selection of sample and analysis parameters
- Auto-standby and safety stop.

Performance Evaluation Samples (PES)



Sunset Lab Performance Evaluation Samples (PES) are quartz filters with carbonaceous aerosol deposits prepared under controlled laboratory conditions with analytical grade materials and methods. Integrating PES filters into QA/QC practices will provide carbonaceous aerosol instrument laboratories with a simple and precise tool for evaluating carbon analyzer performance and the validation of Organic, Elemental and Total Carbon (OCEC) results.

A Certificate of Analysis is provided for every PES filter and the customer will select their protocol of choice, such as NIOSH870, EUSAAR2 or IMPROVE A.

Applications:

- OCEC Analyser
- Performance Test
- QA/QC routines
- Maintenance
- Troubleshooting
- Intercomparisons



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