

Photo-Acoustic Soot Spectrometer Three-Wavelength (PASS-3)



- Direct measurement of aerosol light absorption and scattering.
- *In situ* measurement without filters, continuous and autonomous operation.
- 405, 532 and 781 nm laser wavelengths, simultaneous measurement.
- Absorption measurement at 781 nm is highly specific for black carbon (soot).
- Scattering measurement responds to all particle types.
- Wide dynamic range, good for ambient or source sampling.
- With 2-second integration, absorption sensitivity to 3.0 Mm⁻¹ (@781 nm), 10.0 Mm⁻¹ (@ 532 nm and 405 nm). Longer integration times yield improved sensitivity.
- Suitable for fixed-site, mobile and airborne sampling.
- Power: 115/60 or 220/50, 100 W instrument, 250 W pump.
- Joint development of DMT and Desert Research Institute.
- Patent No. 6,662,627 B2.
- System includes analytical spectrometer, internal data system computer, real-time recording and playback software, shipping case, one day of training at DMT's facility, operations manual, and one-year warranty. Installation and training at customer's site available.

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