

# Photo-Acoustic Soot Spectrometer Single-Wavelength (PASS-1)



- Direct measurement of aerosol light absorption and scattering.
- *In situ* measurement without filters, continuous and autonomous operation.
- Absorption measurement that is highly specific for black carbon (soot).
- Scattering measurement responsive to all particle types.
- Very wide dynamic range, good for ambient or source sampling.
- At 1-second integration time, sensitivity to 100 ng/m<sup>3</sup> as black carbon in diesel exhaust. Longer integration times yield improved sensitivity.
- 781 nm laser wavelength, other wavelengths by special order.
- Suitable for fixed site, mobile and airborne sampling.
- Power: 115/60 or 220/50, 50 W instrument, 250 W pump.
- Weight: 25 kg excluding pump.
- Joint development of Desert Research Institute and DMT.
- 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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