



## PHOTO-ACOUSTIC SOOT SPECTROMETER, SINGLE-WAVELENGTH (PASS-1)



### SPECIFICATIONS:

- Direct measurement of aerosol light absorption and scattering
- In situ measurement, no filters, unattended, continuous operation
- Absorption measurement is highly specific for black carbon (soot)
- Scattering measurement responds to all particle types
- 781 nm laser wavelength, other wavelengths by special order
- Real-time readout of aerosol mass loading
- Very wide dynamic range, good for ambient or source sampling
- Sensitivity to 50 ng/m<sup>3</sup>, 1 sec integration, as black carbon in diesel exhaust. Longer integration times for improved sensitivity
- Suitable for fixed site, mobile and airborne sampling
- Power: 115/60 or 220/50, 50W instrument, 250W pump
- Weight: 25 kg excluding pump
- Multiple wavelength instrument under development
- Joint development of Desert Research Institute and DMT
- 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