

IN102 | AirPhoton Size Scanning Nephelometer

The IN102 nephelometer is a highly accurate instrument built to rugged standards that allows for field deployment under a wide range of conditions. Using a cyclone inlet and our feedback flow control system, it can collect and analyze particles in multiple size ranges between PM2.5 and PM10 making this especially useful for air quality studies.



Capabilities

- Forward and Back Scatter measurements
- Three wavelengths
- High Speed fan
- Feedback Flow control system
- Multiple Size bins

Suggested use

High precision measurements for various size cut-offs under all conditions for air quality and health and climate applications.

Specifications

- Dimensions: 9" x 10" x 24"
- Mass: 6.8 Kg
- Operating temperature: -30 to +45°C
- Wavelengths: 450, 532, and 632 nm
- Angular range: 7 to 90° ; 90 to 170°
- Full scattering = forward + back scattering
- Standard range: 0.0-3,000 Mm⁻¹
- Extended range: 20,000 Mm⁻¹ (upon request)
- Lower detectable limit:
 - <0.15 Mm⁻¹ (at 60 sec AVG)
 - < 0.06 Mm⁻¹ for Backscattering (60 sec AVG)
- Clean air reference option provides automatic zero for span calibration
- Data Interfaces: 4GB SD card, RS485 (optional)