

IN102Ex | AirPhoton Extended Range Size Scanning Nephelometer

The IN102Ex (extended) nephelometer is built to the same standards as our IN102 instrument. In addition, it has the capability to extend its measurement range down to a separate size bin for PMI. The additional data range allows us to derive a full particle size distribution in about 30 - 40 minutes.



Capabilities

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

Suggested use

High precision measurements for various size cut-offs under all conditions for air quality & health and climate applications with ability to obtain size distribution.

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)