# PINeph AirPhoton Polar Imaging Nephelometer

The Polar Imaging Nephelometer is a high grade laboratory instrument designed for an in-depth understating of particulate properties. It provides a full particle characterization including the size distribution and the complex refractive index from hyperangle scattering measurements. Its high capabilities include: light scattering from 3° to 176°, angular resolution of less than 1°, customizable option for 1 - 3 wavelengths and polarization.



### Specifications

- Operational temperature: 5 to 40 °C
- Wavelengths: Up to 3 in the range of 400-
- 680 nm Polarization: P11 and measurements. Other stokes parameters
- options available Angular Range: At least 100
- angles from 5-175° Range: 0.0 to >20000
- Mm-1 Lower detectable limit: < 1 Mm -1 for phase function measurements Programmable flow rate: Available Flow range: 2 to 20 lpm
- & Optional Particle size selection: Optional
- cycling up to 4 cut off sizes External pump
- option: Available Automatic Zero and Span check: Automatic Zero with clean air system.
- GRASP software. Included for span
- calibration Light source: Laser Dimensions: 200\*100\*50cm Weight: < 30 Kg Storage memory: Internal SSD hard drive Data
- Transfer: USB, Ethernet, wifi Environmentally
- rugged: For Indoor or Aircraft Use

## Capabilities

- Size Distribution retrieval.
- Determines sphericity.
- Measures complex refractive index.
- Full particle characterization from hyper-angle scattering measurements.
- Measures light scattering (3°-176°).
- Angular resolution of < 1°
- Standard configuration: 2 visible wavelengths (customizable for 1–3 wavelengths).
- GRASP<sup>TM</sup> software analysis package included.

# Suggested use

specific scientific research purposes looking for in depth and characterization advanced particulate properties in laboratory or aircraft settings.





Australian Sales and Support.

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