

Cloud, Aerosol, and Precipitation Probe (CAPS)



- Multiple instruments in one flight canister, covering a sizing range from 0.5 μm to 1550 μm , plus Hot-Wire LWC, temperature and RH sensing.
- Cloud and Aerosol Spectrometer (CAS) section uses forward-scatter and back-scatter techniques to measure particles from 0.5 μm to 50 μm .
- Cloud Imaging Probe (CIP) section uses a fast 64-element photodiode array to generate 2-dimensional images of particles from 25 μm to 1550 μm , as well as sizing in 1-dimensional histogram form, and includes housekeeping data.
- Liquid Water Content: Hot-Wire sensor measures up to 3 g/m^3 .
- Airspeed and altitude measurements from the heated Pitot tube.
- Output: Ethernet, or high-speed serial RS-422 or RS-232 interfaces.
- Optional PADS software package offers powerful data-acquisition tools to display, record and play back data.
- Calibration fixtures: Spinning disk unit for the CIP and glass-bead calibration fixture for the CAS (included).
- Power: 10 A @ 28 VDC for probe system, 45 A @ 28 VDC for anti-ice heaters.
- Weight of the probe and canister: 45 lbs. / 20.4 kg.
- System includes the spectrometer, flight canister, test cables, spinning disk CIP calibration tool, CAS calibration glass-bead dispenser, shipping case, one day of training at DMT's facility, and one-year warranty.

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