



## CLOUD IMAGING PROBE (CIP)



### SPECIFICATIONS:

- Multiple Instruments in one flight canister, covering a sizing range from 25 $\mu$ m to 1550 $\mu$ m, plus Hot-Wire LWC sensing, Temperature and RH
- Cloud Imaging Probe (CIP) section uses a fast 64-element photodiode array to generate 2-Dimensional Images of particles from 25-1550 $\mu$ m, as well as sizing in 1-Dimensional Histogram form, and includes housekeeping data
- Liquid Water Content: Hot-Wire sensor measures up to 3g/m<sup>3</sup>
- Airspeed and Altitude measurements from the heated Pitot tube
- Temperature sensor measures ambient air, +/- 1C
- Relative Humidity measurement via the Honeywell Humicap
- Output: Ethernet or high-speed serial RS-422 and RS-232 interfaces
- PADS or PACS software packages are powerful data-analysis tools to display, record and play back data from any DMT instruments
- Calibration Fixtures: spinning disk unit for the CIP
- Power: 10A @ 28VDC for the system electronics, 6A @ 28VDC for LWC power and 2 legs of 28VDC @ 10A for anti-icing heaters
- Weight: probe and canister, 26 lbs./11.5kg
- System: includes the spectrometer, flight canister, test cables, software, spinning disk CIP calibration tool, shipping case, one day of training at DMT's facility, and one year warranty