

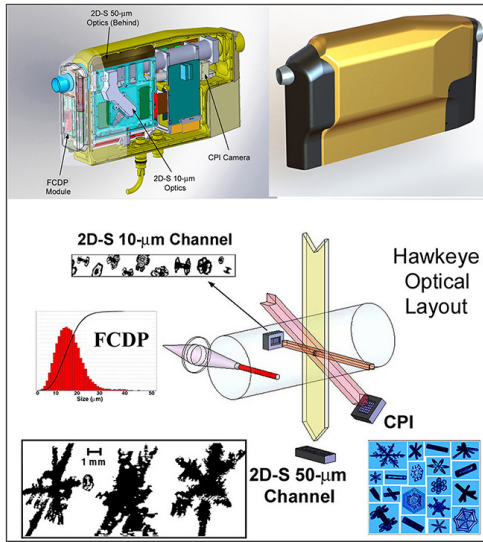
Hawkeye Combination Cloud Particle Probe

The Hawkeye probe was initially developed by SPEC to fly on the NASA Global Hawk Unmanned Aerial Vehicle (UAV). The Hawkeye is an outgrowth of the 3V.CPI, including all of the features of the 3V.CPI, with the addition of an FCDP (Fast Cloud Droplet Probe) in the front part of the sample tube, and the conversion of one 10-micron channel to a 50-micron channel in the 2D-S portion of the probe. In this way, the Hawkeye is actually a combination of four probes in one.

Instrument	Size Range	No. of Gray Levels	Resolution
2D-S (Ch. 1)	10 to 1280 μm	1	10 μm
2D-S (Ch. 2)	50 to 6400 μm	1	50 μm
CPI	2300 μm	256	2.3 μm
HFCDP	1.5 to 50 μm	N/A	3 μm



NASA Global Hawkeye UAV flies to altitudes of 65,000 ft and has a duration of 30 hours



Originally developed to fly on the NASA Global Hawk UAV, the Hawkeye combines four probes into one instrument. The Hawkeye has also flown on the SPEC Learjet, installation shown below.

