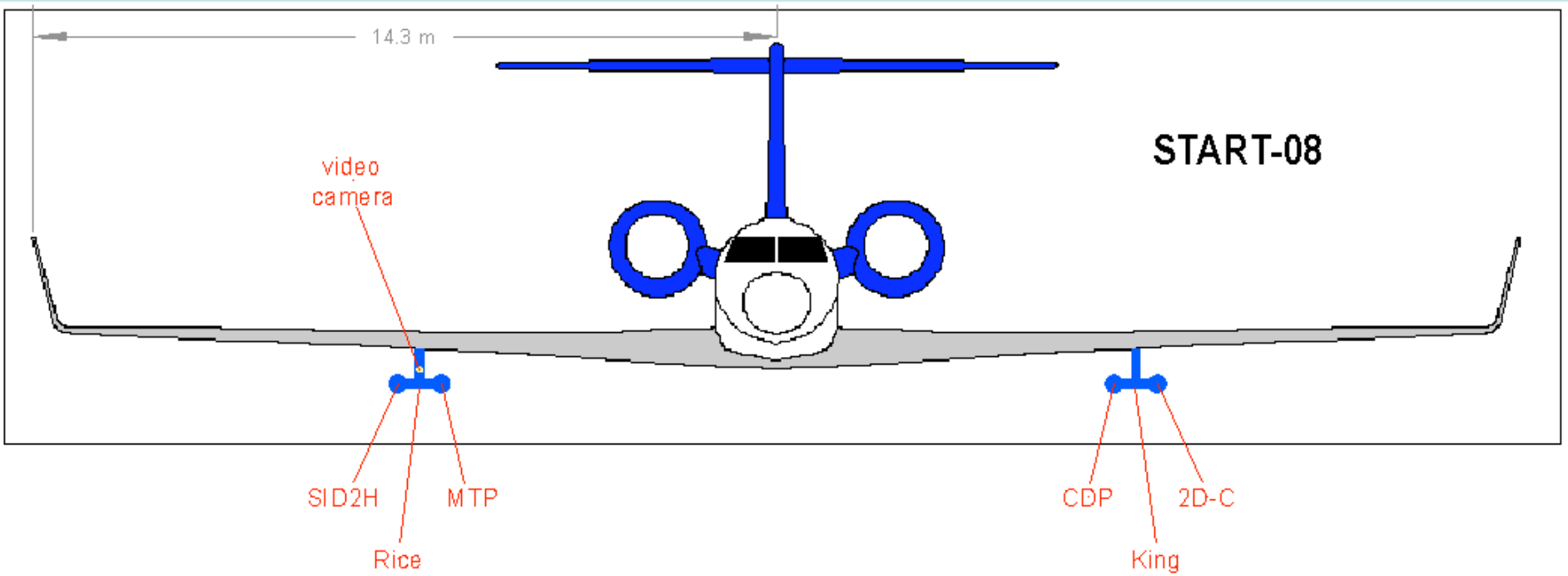
START08
RAF wing pod instruments

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START08
RAF particle instruments

Condensation nuclei = **CN** (rack-mounted, uses HIMIL)	water-based CN > 7 nm, 10 Hz, 0 – 10^5 cm^{-3} ±10%
Small Ice Detector = **SID-2H**	ice & water, conc + size 2 - 60 μm dia.
Cloud Droplet Probe = **CDP**	cloud drops, conc + size, 2 - 60 μm dia.
Two-D cloud particle imaging probe = **2D-C**	ice + rain imaging, Δx 25 μm, conc + size, ~25 – 1600 μm dia.
cloud water content	King hot-wire, ~0.005 to, 2 g/m^3, 10 Hz
super-cooled cloud water	Rosemount icing probe

START08
RAF other measurements

Radome gust system	3-D winds, fast response
State parameters	pressure, temperature, dew-point
Position	GPS + inertial reference
Forward-looking video	images → ***mpeg movie***
Satellite communications	voice, internet chat, image up/down, real-time data → internet access, GoogleEarth flight tracks
Air sample inlets	*http://www.eol.ucar.edu/~dcrogers/Instruments/Inlets/*
software (linux + Windows) display & analysis	*http://www.eol.ucar.edu/raf/Software/*