

Oxford: available equipment/instrumentation



Osney
Thermofluids
Laboratory

Data Acquisition

- Separate NI PXI chassis, 64 channels @ 2 MHz each + 128 channels @ 2 MHz aggregate
- LeCoy 4 channel, 5 GHz oscilloscope
- In-house free flight data acquisition for 6 channels up to 20 kHz

Probe measurements

- 16 x PCB-134 pressure transducer (up to 1 MHz)
- 24 x Kulite XTL-140M (up to 250 kHz)
- 48 channels of thin film signal conditioning up to 1 MHz
- DANTEC 3 hot wire anemometer up to 400 kHz
- Advanced thermochromic liquid crystal

Actuated traverse systems for T6 & HDT

- +/- 15 deg AoA. +/- 5 deg BoA

Optical equipment

- Specialised Imaging Kirana camera (up to 5 MHz)
- Photron Mini UX-100 camera (up to 1 MHz)
- LED light source up to 1 MHz
- Focussed Schlieren optics up to 300 mm

Laser Equipment

- Laser Quantum 671 nm DPSS laser (LIGTS)
- Oxium low noise 532 nm DPSS laser (FLDI)
- Continuum Powerlite 8000 Nd:Yag laser (PLIF)

