

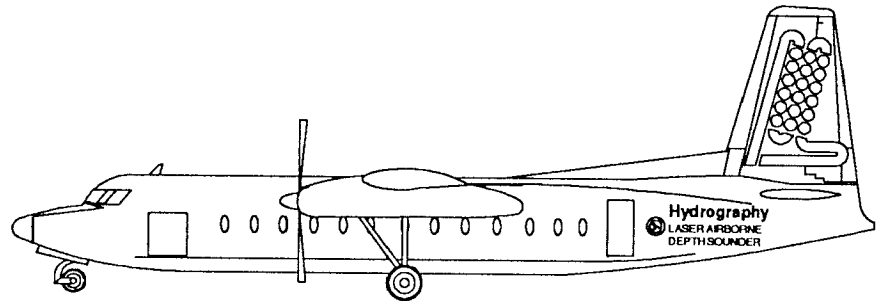


### LADS Airborne Equipment

LADS airborne equipment is modularised and mountable via seat rails in most fixed wing aircraft. LADS airborne equipment is mounted in a Fokker F27-500 for the Royal Australian Navy.

#### LADS F27-500 Aircraft

- Transit Cruise Speed: 220kts
- Transit Altitude: to 20000ft
- Ferry Range: 1800km
- Ferry Load: LADS airborne equipment plus 18 passengers
- Survey Endurance: 7 plus hours
- Survey Speed: 145kts (75m/s)
- Survey Height: 1640ft (500m)
- Pilot Display: track, height, ground speed for manual or automatic flight operation
- Auto Pilot: Smiths SEP-2F coupled for LADS height and track control
- Aircrew: 2 pilots
- Crew Facilities: galley and rest area



LADS airborne equipment mounted in a F27-500 aircraft. All up weight of aircraft, equipment, crew and fuel for 7 hour survey is 20,800 kg.

#### LADS Airborne Equipment

- Sounding Platform: 3 axis stabilised;  $\pm 5^\circ$  roll; -1.5 to  $+3.5^\circ$  pitch;  $\pm 20^\circ$  yaw
- Laser: Nd:YAG
- Wavelength (IR): 1064nm
- Wavelength (Green): 532nm
- Laser Tuning: automatic
- Laser Safety: eye safe to AS2211-1991 at survey height
- Beam Geometry: vertical 1064nm and scanned 532nm beams

3 axis stabilised platform containing laser transmitter and receiver.

