



## Prion Mk 3 Specifications

### Aircraft

Wingspan .....	3.8m
Length .....	3.0m
Weight (configured for surveys) .....	30kg (approx)
Fuel capacity .....	6.5-11lts
Fuel consumption (cruising).....	0.5lts/hr
Cruising speed (for surveying) .....	80kph
Operational range .....	1000+km
Payload.....	optimal 10 kg, maximum 15 kg
Engine.....	120cc 4 stroke petrol
Engine control .....	Fuel injection ECU
Prop.....	28x14 – 3 blade carbon fibre
Landing gear options.....	Tricycle wheels Skids with a launcher

Aircraft dismantles into components of 2m and less for transport.  
Removable front section allows easy access to onboard systems and components.

### Control

- Autopilot system
- Ground station with iridium sat-phone link for beyond horizon flight
- Real-time telemetry for aircraft, engine and data on separate screens
- Pilot’s consul for manual control.
- Real-time feedback of fuel consumption and capacity.

### Systems

- Engine ECU controlling fuel and ignition for optimum performance in all weather.
- Engine data logged by ECU and external removable logger on continuous loop.
- GPS and fluxgate magnetometer data recorded on PCMCIA logger (approx 1000hrs)
- Differential GPS for accurate survey positioning.
- All onboard systems accessible through a plug in USB port.

### Electrical power

External plug in ground power from 12v supply .....	Standby
Onboard alternator supplying 24v, 12v and 5v outputs.....	Engine running
Onboard battery with approximately 2 hours endurance.....	Emergency
Emergency battery charging system.....	Engine running



Prion Mk 3 Surfaces



Prion Mk 3 Underside



Prion Mk 3 On-board electronics, nose cowling removed.



Prion Mk 3 'Pusher' Engine



Prion Mk 3 fleet



CAA inspection flight 2008.