

## Volanti-3e



Volanti is the latest and most advanced all-electric fixed-wing RPAS developed by Carbonix. This 3.6m wingspan Power Lift drone is capable of rapid aerial surveys across vast and difficult terrain with high accuracy and high confidence. It can be set up in minutes and, with VTOL (Vertical Take-Off and Landing) capability, deployed from small unprepared areas with no need for a runway or bulky launching and retrieval equipment. You can order Volanti fitted with a choice of proven standard sensor payloads for photogrammetry, multispectral imaging, or ISR (Intelligence, Surveillance, Reconnaissance) observation. Alternatively, we can customise it to suit your requirements, integrating your preferred payloads. Volanti has been carefully optimised and tested for the rigours of commercial operations – An evolution tracing back to the Cometa airframe. Volanti's highly efficient airframe made from America's Cup derived carbon fibre composites, combined with carefully engineered custom avionics hardware and software, ensure maximum return on investment for your business's aerial sensing needs.

### Capabilities

Flight time	Up to 2 hrs
Payload capacity	Up to 1kg
Telemetry range	40km
Maximum Take-off Weight	16kg
Altitude Ceiling	2000 m

### Power

4 x VTOL motors, 1 x pusher motor  
2 x 11,000 mAh Lithium-Ion Polymer batteries

### Dimensions (mm)

Airframe	Wingspan 3.600 Length 2,040
Payload space	126 (L) x 109 (W) x 80 (H)
Carry Case	1,780 (L) x 1,025 (W) x 540 (H)

### Sensor Capability

ISR: Gimbal camera with high-bandwidth data link, visible and IR spectrum with object-tracking AI and 360° live view.  
Surveying and mapping: Still camera for 3-D photogrammetry, surveying, vegetation & linear asset inspection and monitoring  
Multispectral still camera for precision agriculture, mining, conservation and vegetation monitoring

### Fixed-Wing Flight Speeds

	Cruise	Loiter	Stall	Max
km/h	86	65	58	100
m/s	24	18	16	28

### Navigation

Automatically execute pre-planned flights or adjust the mission in real-time. Proprietary autopilot with GPS and redundant IMUs. PPK and RTK compatible. Pitot/static, compass, multiple failsafes.

### Ground Control System

Ground Control Software	QGroundControl
Radio Link	Doodle Labs RM915
Rugged Case	Pelican Air 1605
Power	20V 6.5A (135W)

Call our Sales Team for a Quote  
+61 (0) 421 488 955



[WWW.CARBONIX.COM.AU](http://WWW.CARBONIX.COM.AU)

