

# Domani-3



Carbonix developed Domani to have the longest range and heaviest payload capability possible in a compact transportable package. This 4.5m Power Lift drone is capable of rapid aerial surveys across vast and difficult terrain with high accuracy and high confidence. Domani's unparalleled ability to carry payloads of up to 5kg for up to 10 hours puts this aircraft into a class of its own. Domani harnesses all the benefits of the smaller Volanti with added flight time and increased payload capacity. 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. Domani can carry various sensors depending on your requirements, including high-end LiDAR and 100mp+ photogrammetry sensors for highly accurate imagery. We can customise it to suit your requirements, integrating your preferred payloads.

## Capabilities

Flight time	Up to 10 hrs
Payload capacity	Up to 5kg
Telemetry range	40km
Maximum Take-off Weight	32kg
Altitude Ceiling	2000 m

## Power

Hybrid 4 x VTOL motors, 1 x DA 35 EFI pusher engine  
2 x 11,000 mAh Lithium-Ion Polymer batteries

## Dimensions (mm)

Airframe	Wingspan 4,500 Length 3,060
Payload space	450 (L) x 118 (W) x 110 (H)
Carry Case	1,780 (L) x 1,085 (W) x 700 (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 or LiDAR sensor for 3-D photogrammetry, surveying, vegetation & linear asset inspection  
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  
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