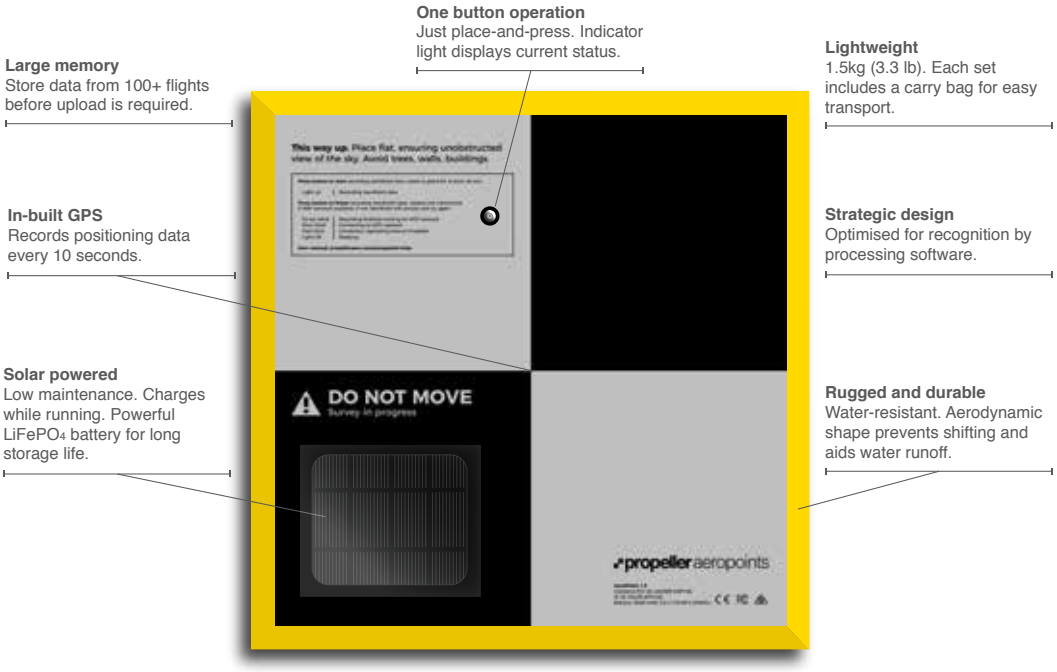
propeller aeropoints

Technical Specifications

If you want your commercial drone operation to deliver consistent, high-quality data, **you need to get ground control right**. AeroPoints are the world's first smart ground control solution, purpose-built for drone operations. They make capturing accurate data simple and affordable.

Each AeroPoint is a portable, reusable ground control point (GCP) that repeatedly records positioning data while you fly. Lightweight and durable with simple one-touch operation, a standard set of 10 AeroPoints can be placed around a survey site in minutes.



	Global accuracy	Relative accuracy
Propeller Correction Network (within 35km baseline; see coverage map at propelleraero.com/aeropoints-coverage-map)	Horizontal: 10mm + 1ppm Vertical: 20mm + 1ppm	Horizontal: <10mm Vertical: <10mm
L1/L2 RTK Rover/Base Station RINEX	Horizontal: 10mm + 1ppm[1] Vertical: 20mm + 1ppm[1]	Horizontal: <10mm Vertical: <10mm
AeroPoint on known mark	As accurate as the known mark	Horizontal: <10mm Vertical: <10mm
No correction	Horizontal: 500mm Vertical: 500mm	Horizontal: <10mm Vertical: <10mm

[1] Where RINEX or known mark data is supplied to correct AeroPoints, results will be dependant on accuracy of the supplied data.

Accuracy in less than an hour

AeroPoints only need to be activated for 45 minutes for the in-built GPS to record accurate data—well within the time it takes to carry out a typical drone survey. AeroPoints work best as a set of 10 units, correcting against each other for the most precise results.

Works with any drone

AeroPoints improve the accuracy of data captured by any GPS-enabled drone, even those with onboard RTK. AeroPoints provide a stable 'on the ground truth' to help correct the impact of altitude variance and temporary signal loss.

Works with any software

We recommend using AeroPoints together with the Propeller platform for a seamless, integrated experience. But if you prefer to do your own processing, you can export position data for use within any application.

Flexible post-processing correction

AeroPoints correct against each other to achieve tight relative accuracy. To achieve global accuracy, take advantage of Propeller's extensive and ever-expanding Correction Network. If your survey area falls outside this network, you can still achieve global accuracy by using base station RINEX data, taking a GPS rover shot from the centre of one AeroPoint, or laying one AeroPoint over a known mark on your site.

Works with your grid

Use non-standard or local grid coordinates? Simply provide us with a point pair file that translates your grid to a coordinate reference system.

Product specifications	
Compatible drone technology	Any GPS (including RTK) enabled drone, including DJI (Phantom, Matrice, etc).
Compatible correction data	Propeller Correction Network; On-site base station (RINEX); Known mark
Compatible image/ sensor types	RGB only
Processed data formats	View in Propeller platform, or download as CSV, PDF, KML
Software compatibility	Any processing application that accepts GCP data in CSV format
Operating temperature	-10°C/14°F to 50°C/122°F (ambient)
Operating humidity	100% (condensing)
Battery life	45 hours (with no sun exposure)
Charging time	16 hours in full sun
Regulatory certifications	FCC, IC, CE, RCM

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