

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.

One-button operation

Just place and press. Indicator light displays current status.

In-built GPS

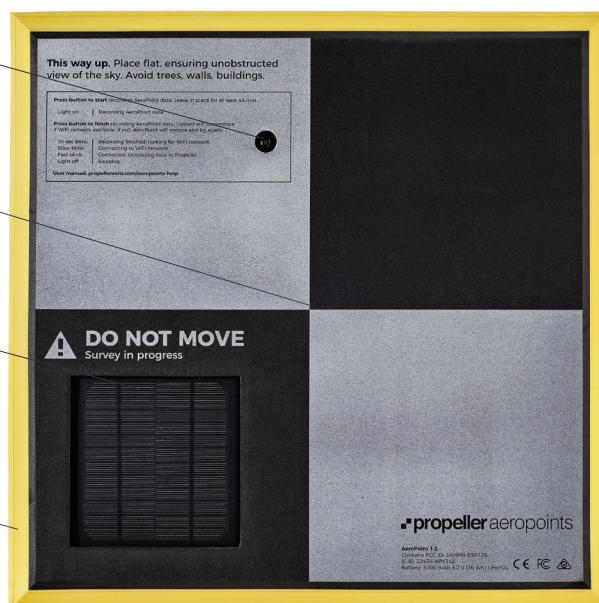
Records positioning data every 10 seconds.

Solar powered

Low maintenance. Charges while running. Powerful LiFePO4 battery for long storage life.

Rugged and durable

Water-resistant. Aerodynamic shape prevents shifting and aids water runoff.



Lightweight

1.5kg (3.3lb). Each set includes a carry bag for easy transport.

Large memory

Store data from 100-plus flights before upload is required.

Strategic design

Optimized for recognition
by processing software.

	Global accuracy	Relative accuracy
Propeller Corrections 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

¹Where 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 everexpanding Corrections 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 center of one AeroPoint, or laying one AeroPoint over a known mark on your site.

Works with your grid

Use nonstandard 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 Corrections 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	14°F (-10°C) to 122°F (50°C) ambient
Operating humidity	100% (condensing)
Battery life	45hrs (with no sun exposure)
Charging time	16hrs in full sun
Regulatory certifications	FCC, IC, CE, RCM



Call 877-844-3101
And order yours today.

Get AeroPoints

AeroPoints are the world's first smart ground control points, purpose-built for drone surveying.

Learn more:

<https://www.baselineequipment.com/propeller-aeropoints>